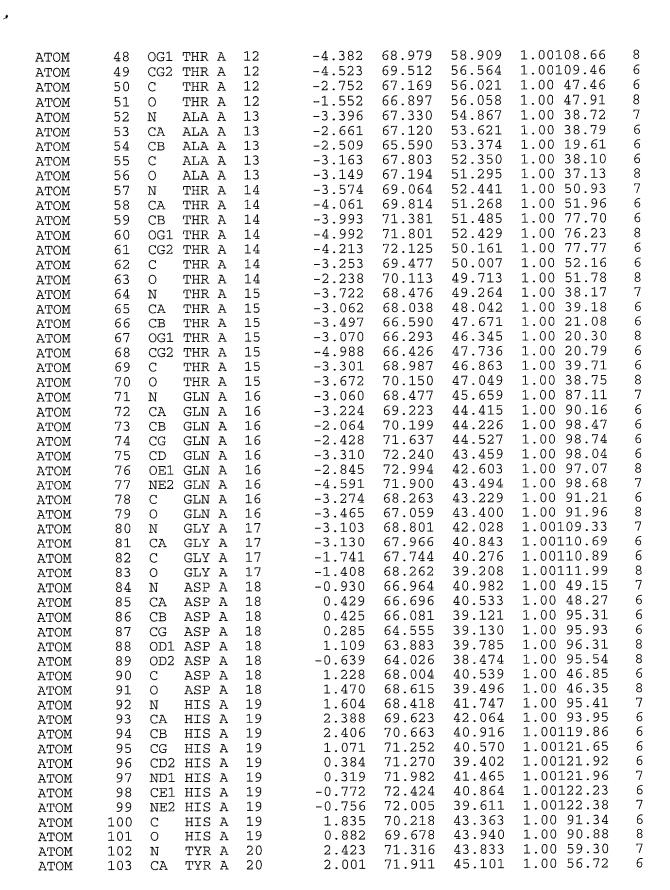
Table 2

	REMARK	Writt	ten k	у 0	vei	rsion 6.2	2.1					
						1:44 2000						
	CRYST1	199	.450	199	. 45	0 289.1	130 90	.00	90.00	90.00		
	ORIGX1		1.00	0000	(0.000000	0.000			0.00000		
	ORIGX2		0.00	0000	1	.000000	0.000	000		0.00000		
	ORIGX3		0.00	0000	(0.000000	1.000	000		0.00000		
	SCALE1		0.00	5014	(0.000000	0.000			0.00000		
	SCALE2		0.00	0000		0.005014	0.000			0.00000		
	SCALE3		0.00	0000	(0.000000	0.003			0.00000		
	ATOM	1	CB	ALA	Α	6	-0.67	4 65	5.559	73.225	1.00184.01	6
	ATOM	2	С	ALA	A	6	-1.08		3.492	71.882	1.00150.25	6
	MOTA	3	0	ALA	Α	6	-1.96		2.636	71.787	1.00150.75	8
	ATOM	4	N	ALA	Α	6	-2.90	6 65	.120	72.256	1.00150.94	7
	ATOM	5	CA	ALA		6	-1.44		1.960	72.050	1.00150.69	6
	MOTA	6	N	LYS		7	0.22		1.209	71.866	1.00121.92	7
	ATOM	7	CA	LYS		7	0.72		855	71.667	1.00120.02	6
	ATOM	8	CB	LYS		7	-0.03		.821	72.496	1.00156.94	6
	ATOM	9	CG	LYS		7	0.13		.890	73.994	1.00157.98	6
	MOTA	10	CD	LYS		7	-0.66		.764	74.624	1.00159.08	6
	ATOM	11	CE	LYS		7 .	-0.54		.750	76.131	1.00160.31	6
	ATOM	12	NZ	LYS		7	-1.33		.638	76.731	1.00161.74	7
	ATOM	13	C	LYS		7	0.48		.553	70.201	1.00118.48	6
	ATOM	14	0	LYS		7	1.11		.665	69.623	1.00118.87	8
	ATOM	15	N	ALA		8	-0.43		.308	69.613	1.00 91.47	7
	ATOM ATOM	16 17	CA CB	ALA ALA		8 8	-0.80		.143	68.218	1.00 88.83	6
	MOTA	18	С	ALA		8	-2.07 -1.00		.305	68.118 67.524	1.00 71.07 1.00 86.40	6 6
	ATOM	19	Ö	ALA		8	-1.53		.428	68.112	1.00 86.40	8
	ATOM	20	N	PRO		9	-0.54		.597	66.267	1.00 53.91	7
	ATOM	21	CD	PRO		9	0.51		.722	65.741	1.00 69.31	6
	ATOM	22	CA	PRO		9	-0.669		.809	65.449	1.00 52.02	6
٠.	ATOM	23	CB	PRO		9	0.674		.864	64.756	1.00 68.44	6
	MOTA	24	CG	PRO	Α	9	0.90		.412	64.453	1.00 69.17	6
	MOTA	25	С	PRO		9	-1.824		.699	64.450	1.00 49.71	6
	ATOM	26	0	PRO		9	-2.494		.679	64.378	1.00 48.85	8
	ATOM	27	N	VAL		10	-2.040		.746	63.670	1.00 56.71	7
	ATOM	28	CA	VAL		10	-3.117		.753	62.692	1.00 55.46	6
	ATOM ATOM	29 30	CB CG1	VAL VAL		10 10	-4.120		.872	63.012	1.00 55.12	6
	ATOM	31		VAL		10	-5.149 -4.795		.005	61.904	1.00 55.17	6 6
	ATOM	32	C	VAL		10	-2.554		.581 .958	64.335 61.296	1.00 54.29 1.00 55.42	
	ATOM	33	Õ	VAL		10	-2.573		.064		1.00 55.98	6 8
	ATOM	34	N	PHE		11	-2.069		.871	60.711	1.00 63.05	7
	MOTA	35	CA	PHE		11	-1.454		.903	59.392	1.00 62.54	6
	MOTA	36	CB	PHE		11	-0.919		.509	59.053	1.00119.96	6
1	MOTA	37	CG	PHE	Α	11	-0.075		.460	57.809	1.00120.51	6
	MOTA	38	CD1	PHE	Α	11	0.806	64	.494	57.500	1.00120.57	· 6
	MOTA	39	CD2	PHE		11	-0.135	62	.356	56.961	1.00121.37	6
	MOTA	40	CE1	PHE		11	1.616		.428	56.366	1.00119.73	6
	ATOM	41		PHE		11	0.669		.280	55.827	1.00120.93	6
	MOTA	42	CZ	PHE		11	1.547			55.527	1.00120.06	6
	MOTA	43	C	PHE		11	-2.340			58.266	1.00 62.10	6
	MOTA MOTA	44 45	О м	PHE		11 12	-2.671			57.338	1.00 61.58	8
	ATOM ATOM	45	N CA	THR THR		12	-2.721			58.355	1.00 47.43	7
	MOTA	47	CB	THR		12	-3.533 -3.713			57.328	1.00 47.79 1.00108.24	6 6
-		- T /	~	****	41		-J./13	00	.034	57.647	1.UUIU0.44	0



ATOM	104	СВ	TYR A	20	0.675	72.641	44.992	1.00 84.02	6
ATOM	105	CG	TYR A	20	0.845	74.124	44.855	1.00 86.19	6
ATOM	106	CD1	TYR A	20	0.937	74.719	43.593	1.00 86.75	6
ATOM	107	CE1	TYR A	20	1.114	76.095	43.451	1.00 87.24	6
ATOM	108	CD2	TYR A	20	0.936	74.940	45.982	1.00 87.02	6
ATOM	109	CE2	TYR A	20	1.115	76.321	45.852	1.00 87.64	6
ATOM	110	CZ	TYR A	20	1.203	76.889	44.581	1.00 87.77	6
ATOM	111	OH	TYR A	20	1.389	78.244	44.436	1.00 89.34	8
ATOM	112	С	TYR A	20	1.847	70.778	46.072	1.00 53.80	6
ATOM	113	0	TYR A	20	2.391	69.707	45.867	1.00 54.73	8
MOTA	114	N	GLY A	21	1.100	70.989	47.132	1.00 50.16	7
ATOM	115	CA	GLY A	21	0.950	69.902	48.069	1.00 47.19	6
MOTA	116	С	GLY A	21	1.471	70.248	49.442	1.00 44.51	6
ATOM	117	0	GLY A	21	2.361	69.590	49.973	1.00 44.32	8
ATOM	118	N	GLU A	22	0.924	71.314	50.005	1.00 39.88	7
MOTA	119	CA	GLU A	22	1.293	71.724	51.335	1.00 37.92	6
ATOM	120	CB	GLU A	22	0.488	72.965	51.716	1.00 62.99	6
MOTA	121	CG	GLU A	22	0.217	73.904	50.537	1.00 64.94	6
ATOM	122	CD	GLU A	22	-0.739	75.046	50.885	1.00 67.11	6
MOTA	123	OE1	GLU A	22	-1.688	74.806	51.671	1.00 67.85	8
ATOM	124	OE2	GLU A	22	-0.555	76.174	50.358	1.00 67.53	8
MOTA	125	С	GLU A	22	0.843	70.511	52.145	1.00 35.14	6
MOTA	126	0	GLU A	22	-0.221	69.953	51.886	1.00 35.06	8
MOTA	127	N	PHE A	23	1.648	70.072	53.098	1.00 45.71	7
MOTA	128	CA	PHE A	23	1.262	68.914	53.889	1.00 44.96	6
MOTA	129	CB	PHE A	23	2.104	67.698	53.494	1.00 29.76	6
MOTA	130	CG	PHE A	23	2.074	67.389	52.023	1.00 26.17	6
MOTA	131	CD1	PHE A	23	0.873	67.327	51.337	1.00 26.14	6
ATOM	132	CD2	PHE A	23	3.244	67.140	51.327	1.00 24.41	6
ATOM	133	CE1	PHE A	23	0.844	67.019	49.981	1.00 25.18	6
ATOM	134	CE2	PHE A	23	3.217	66.832	49.973	1.00 23.87	6
ATOM	135	CZ	PHE A	23	2.020	66.773	49.304	1.00 24.25	6
ATOM	136	C	PHE A	23	1.451	69.216	55.364 55.880	1.00 45.13	6 8
ATOM	137	0	PHE A	23	2.564	69.127 69.559	56.044	1.00 46.47 1.00 29.36	7
MOTA ATOM	138 139	N	VAL A VAL A	24 24	0.359 0.421	69.559	57.457	1.00 29.30	6
ATOM	140	CA CB	VAL A	24	-0.710	70.840	57.891	1.00 26.37	6
ATOM	141	CG1	VAL A	24	-0.537	70.340	59.348	1.00 20.37	6
ATOM	142	CG1	VAL A	24	-0.716	72.115	57.074	1.00 27.03	6
ATOM	143	C	VAL A	24	0.351	68.751	58.414	1.00 28.27	6
MOTA	144	Ö	VAL A	24	-0.470	67.858	58.287	1.00 28.42	8
ATOM	145	N	LEU A	25	1.236	68.776	59.390	1.00 24.98	7
ATOM	146	CA	LEU A	25	1.223	67.767	60.413	1.00 25.10	6
ATOM	147	CB	LEU A	25	2.600	67.635	61.051	1.00 20.57	6
ATOM	148	CG	LEU A	25	2.998	66.180	61.263	1.00 20.16	6
ATOM	149	CD1		25	3.158	65.901	62.743	1.00 18.63	6
ATOM	150	CD2	LEU A	25	1.941	65.264	60.635	1.00 19.90	6
ATOM	151	С	LEU A	25	0.266	68.510	61.315	1.00 26.87	6
ATOM	152	0	LEU A	25	-0.833	68.853	60.865	1.00 26.44	8
ATOM	153	N	GLU A	26	0.669	68.787	62.555	1.00116.39	7
ATOM	154	CA	GLU A	26	-0.183	69.547	63.467	1.00118.12	6
ATOM	155	СВ	GLU A	26	-1.494	68.801	63.727	1.00 55.30	6
ATOM	156	CG	GLU A	26	-2.743	69.596	63.350	1.00 53.07	6
ATOM	157	CD	GLU A	26	-2.547	71.087	63.477	1.00 51.49	6
ATOM	158	OE1	GLU A	26	-2.151	71.538	64.566	1.00 49.62	8
ATOM	159	OE2	GLU A	26	-2.795	71.803	62.486	1.00 52.84	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	160 161 162 163 164 165 166 167 168 169 171 172 173 174 175 177 178 179 181 182	C O N CD CA CB CG CD1 CD2 C O N CA CB CG CD1 CD2 C O N CA CB CG CD	GLU A GLU A PRO A PRO A PRO A PRO A PRO A PRO A LEU A LEU A LEU A LEU A LEU A GLU A GLU A GLU A GLU A GLU A GLU A	26 27 27 27 27 27 27 27 27 28 28 28 28 29 29 29 29	0.466 1.435 -0.027 -0.943 0.660 -0.342 -0.787 1.957 1.970 3.045 4.337 5.204 5.135 5.692 5.892 5.014 4.938 5.652 6.341 7.201 6.414 7.248 7.820	69.999 70.758 69.541 68.451 70.056 69.790 68.400 69.323 68.305 69.827 69.190 69.324 68.133 68.542 66.924 69.835 71.047 69.011 69.510 68.411 67.210 66.273 66.742	64.786 64.754 65.959 66.354 67.143 68.241 67.874 67.388 68.076 66.819 67.014 65.756 64.788 63.433 65.380 68.203 68.383 69.028 70.205 70.835 71.331 72.187 73.197	1.00120.58 1.00121.90 1.00 79.42 1.00 84.24 1.00 79.50 1.00 83.86 1.00 84.43 1.00 81.30 1.00 82.18 1.00 52.55 1.00 53.38 1.00 30.51 1.00 29.10 1.00 27.98 1.00 28.36 1.00 55.09 1.00 54.89 1.00 95.04 1.00 97.70 1.00135.72 1.00139.75 1.00142.12 1.00144.19	687666668766666876668
ATOM ATOM	183 184	OE2 C	GLU A	29 29	7.324 7.221	65.067 70.683	71.860 69.806	1.00142.16	8 6
MOTA MOTA	185 186	O N	GLU A ARG A	29 30	7.888 7.206	70.652 71.729	68.770 70.620	1.00 98.86 1.00 49.18	8 7
ATOM	187	CA	ARG A	30	8.021	72.900	70.349	1.00 48.17	6
MOTA	188	СВ	ARG A	30	8.029	73.811	71.573	1.00135.75	6
MOTA	189	CG	ARG A	30	7.710	73.099	72.883	1.00138.35	6
MOTA MOTA	190 191	CD NE	ARG A	30 30	6.214 5.858	72.839 72.349	73.015 74.342	1.00140.35 1.00141.60	6 7
ATOM	192	CZ	ARG A	30	4.676	72.544	74.917	1.00141.60	6
ATOM	193	NH1	ARG A	30	3.733	73.224	74.282	1.00143.40	7
ATOM	194	NH2	ARG A	30	4.434	72.060	76.128	1.00142.68	7
ATOM	195	C	ARG A	30 30	9.449 10.265	72.499 72.211	69.996 70.879	1.00 47.03 1.00 45.83	6 8
ATOM ATOM	196 197	N O	ARG A GLY A	31	9.746	72.474	68.704	1.00 45.03	7
ATOM	198	CA	GLY A	31	11.082	72.113	68.289	1.00 85.50	6
ATOM	199	C	GLY A	31	11.183	71.239	67.060	1.00 84.90	6
ATOM ATOM	200 201	N O	GLY A PHE A	31 32	11.913 10.459	71.569 70.123	66.127 67.051	1.00 85.07 1.00 67.60	8 7
ATOM	202	CA	PHE A	32	10.508	69.204	65.918	1.00 66.18	6
ATOM	203	СВ	PHE A	32	9.686	67.948	66.221	1.00 37.90	6
ATOM	204	CG	PHE A	32	10.366	66.995	67.163	1.00 36.46	6
ATOM	205	CD1	PHE A	32 32	11.292 10.057	67.448 65.645	68.090 67.154	1.00 36.18 1.00 35.75	6 6
ATOM ATOM	206 207	CD2 CE1	PHE A	32 32	11.897	66.557	68.998	1.00 35.73	6
ATOM	208	CE2	PHE A	32	10.662	64.746	68.066	1.00 35.33	6
ATOM	209	CZ	PHE A	32	11.573	65.200	68.979	1.00 35.10	6
ATOM ATOM	210 211	C O	PHE A	32 32	10.056 10.196	69.845 69.254	64.615 63.546	1.00 65.97 1.00 65.84	6 8
ATOM	212	N	GLY A	33	9.534	71.063	64.704	1.00 77.10	7
ATOM	213	CA	GLY A	33	9.097	71.751	63.507	1.00 75.91	6
ATOM	214	C	GLY A	33	10.094	71.568	62.376	1.00 75.60	6 8
ATOM	215	0	GLY A	33	9.720	71.510	61.206	1.00 76.44	Ö

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	216 217 218 219 220 221 222 223 224 225 226 227 228 231 232 233 234 235 237 238 241 242 243 244 245 246 247 248 249 251 251 251 251 251 251 251 251 251 251	N CA CB CG1 CG2 C O N CA CB CG1 CD2 C O N CA CB CCD1 CD2 C O N CA CC C C C C C C C C C C C C C C C C	VAL A THR A THR A THR A THR A THR A THR A LEU A LEU A LEU A LEU A LEU A A SN A ASN A AND B B B B B B B B B B B B B B B B B B B	33333333333333333333333333333333333333	11.37 12.41 13.50 12.90 14.14 13.09 13.57 13.15 13.47 13.69 14.37 13.30 14.02 11.43 10.00 9.75 10.51 11.85 1	71.289 72.380 73.749 72.363 73.749 72.363 73.99 69.422 69.392 9 68.095 74 67.373 75 66.168 67.471 66.415 66.415 67.471 66.343 66.415 67.668 67.471 68.868 67.319 70.089 70.381 69.880 70.089 70.783 68.868 70.059 70.381 69.880 70.783 68.868 69.862 67.679 66.620 65.618	62.725 61.724 61.800 61.479 63.168 60.863 63.026 64.559 65.6738 62.088 61.728 61.728 61.729 62.7526 62.7526 62.7526 62.7526 62.7526 62.7526 62.7526 63.087 63.087 64.738 65.67.728 661.526 67.756 67.7756 57.7	1.00 52.80 1.00 51.83 1.00 59.73 1.00 60.67 1.00 50.63 1.00 51.62 1.00 36.90 1.00 52.73 1.00 52.98 1.00 52.98 1.00 52.98 1.00 32.97 1.00 32.07 1.00 39.45 1.00 39.45 1.00 39.45 1.00 39.45 1.00 39.45 1.00 54.11 1.00 56.99 1.00 56.99 1.00 58.77 1.00 60.64 1.00 43.74 1.00 42.89 1.00 40.56 1.00 39.64 1.00 39.64 1.00 40.56 1.00 40.13 1.00 40.48 1.00 40.48	7666668766866876666687668766876876666
ATOM ATOM	250 251	N CD	PRO A PRO A	39 39	15.28 15.26	32 67.851 57 67.679	57.094 58.555	1.00 40.48 1.00 16.97	7 6
			PRO A		15.76	54 65.618 31 66.439	57.618	1.00 16.06	6
ATOM ATOM ATOM	256 257 258	O N CA	PRO A LEU A LEU A	39 40 40	15.41 13.58 12.65	.1 65.649 89 66.375	54.290 55.408 54.351	1.00 42.03 1.00 77.92 1.00 79.48	8 7 6
ATOM ATOM ATOM	259 260 261	CB CG CD1	LEU A LEU A	40 40 40	11.20 10.79 9.30	07 66.157 07 65.405		1.00 44.82 1.00 45.44 1.00 45.40	6 6 6
ATOM ATOM ATOM	262 263 264	CD2 C		40 40 40	11.15 12.90 13.20	65 63.930 6 66.921		1.00 45.49 1.00 80.46 1.00 80.99	6 6 8
ATOM ATOM ATOM	265 266 267	N CA CB	ARG A ARG A ARG A	41 41 41	12.79 13.01 12.95	68.221 0 69.201	53.408 52.359 52.948	1.00 78.27 1.00 77.86 1.00 71.76	7 6 6
ATOM ATOM ATOM	268 269 270	CG CD NE	ARG A ARG A ARG A	41 41 41	12.55 12.55 13.74 14.58	58 71.705 1 72.275	51.953 51.194 52.066	1.00 71.76 1.00 73.75 1.00 74.31 1.00 76.34	6 6 7
ATOM	271	CZ	ARG A	41	15.45		52.945	1.00 70.34	6

ATOM	272	NH1	ARG A	41	15.606	71.270	53.079	1.00 80.51	7
MOTA	273	NH2	ARG A	41	16.164	73.396	53.708	1.00 79.89	7
MOTA	274	С	ARG A	41	14.376	68.910	51.748	1.00 76.52	6
MOTA	275	0	ARG A	41	14.559	68.987	50.534	1.00 76.69	8
MOTA	276	N	ARG A	42	15.333	68.559	52.598	1.00 55.69	7
MOTA	277	CA	ARG A	42	16.665	68.228	52.117	1.00 54.23	6
ATOM	278	CB	ARG A	42	17.559	67.759	53.266	1.00 43.27	6
ATOM	279	CG	ARG A	42	17.965	68.846	54.226	1.00 43.46	6
ATOM	280 281	CD	ARG A	42 42	19.175 20.400	69.576	53.713	1.00 42.80	6
ATOM ATOM	282	$_{ m CZ}$	ARG A	42	20.400	68.918 69.162	54.144 53.617	1.00 41.66 1.00 41.52	7 6
ATOM	283	NH1	ARG A	42	21.714	70.050	52.635	1.00 41.52	7
ATOM	284	NH2	ARG A	42	22.663	68.522	54.074	1.00 40.40	7
ATOM	285	C	ARG A	42	16.490	67.094	51.127	1.00 52.39	6
ATOM	286	Ō	ARG A	42	16.635	67.289	49.921	1.00 52.13	8
ATOM	287	N	IĻE A	43	16.150	65.914	51.650	1.00 28.41	7
ATOM	288	CA	ILE A	43	15.961	64.731	50.827	1.00 25.56	6
ATOM	289	CB	ILE A	43	15.265	63.585	51.616	1.00 20.13	6
ATOM	290	CG2	ILE A	43	15.289	62.291	50.806	1.00 18.45	6
MOTA	291	CG1	ILE A	43	16.002	63.313	52.926	1.00 19.25	6
MOTA	292	CD1	ILE A	43	17.358	62.780	52.730	1.00 20.64	6
ATOM	293	C	ILE A	43	15.122	65.096	49.611	1.00 24.61	6
MOTA	294	0	ILE A	43	15.596	64.997	48.483	1.00 23.15	8
ATOM ATOM	295 296	N Ca	LEU A LEU A	$\frac{44}{44}$	13.891	65.538	49.834	1.00 60.43 1.00 62.04	7
ATOM	290 297	CA CB	LEU A	$\frac{44}{44}$	13.022 11.928	65.900 66.843	48.721 49.205	1.00 62.04 1.00 32.70	6 6
ATOM	298	CB	LEU A	$\frac{44}{44}$	10.914	66.119	50.078	1.00 32.70	6
ATOM	299	CD1		$\frac{14}{44}$	10.156	67.122	50.898	1.00 31.74	6
ATOM	300	CD2	LEU A	$\frac{1}{4}\frac{1}{4}$	9.969	65.310	49.219	1.00 31.99	6
MOTA	301	С	LEU A	44	13.770	66.526	47.539	1.00 62.79	6
MOTA	302	0	LEU A	44	13.569	66.130	46.387	1.00 63.37	8
MOTA	303	N	LEU A	45	14.645	67.487	47.828	1.00 54.74	7
MOTA	304	CA	LEU A	45	15.411	68.169	46.789	1.00 52.16	6
ATOM	305	CB	LEU A	45	16.062	69.423	47.363	1.00 13.87	6
ATOM	306	CG CD1	LEU A	45	15.152	70.604	47.623	1.00 13.87	6
MOTA	307 308	CD1	LEU A LEU A	45 45	15.843	71.586	48.516	1.00 13.87 1.00 13.87	6
ATOM ATOM	309	CD2 C	LEU A	45	14.792 16.494	71.238 67.306	46.320 46.167	1.00 13.87 1.00 52.20	6 6
ATOM	310	0	LEU A	45	16.788	67.441	44.980	1.00 52.20	8
ATOM	311	N	SER A	46	17.074	66.423	46.977	1.00 47.04	7
ATOM	312	CA	SER A	46	18.169	65.550	46.556	1.00 47.85	6
ATOM	313	СВ	SER A	46	19.098	65.282	47.734	1.00 62.29	6
ATOM	314	OG	SER A	46	19.440	66.478	48.399	1.00 64.36	8
ATOM	315	С	SER A	46	17.793	64.207	45.965	1.00 47.22	6
ATOM	316	0	SER A	46	17.335	64.098	44.833	1.00 47.52	8
MOTA	317	N	SER A	47	18.015	63.171	46.754	1.00 19.54	7
ATOM	318	CA	SER A	47	17.740	61.819	46.314	1.00 20.83	6
ATOM	319 320	CB OG	SER A SER A	47 47	18.339 19.636	60.840 61.245	47.330 47.740	1.00 47.90 1.00 48.74	6 8
ATOM	321	C	SER A	47	16.240	61.523	46.111	1.00 48.74	6
ATOM	322	Ö	SER A	47	15.415	61.785	46.986	1.00 20.87	8
MOTA	323	N	ILE A	48	15.900	60.977	44.953	1.00 46.59	7
ATOM	324	CA	ILE A	48	14.528	60.621	44.624	1.00 48.06	6
ATOM	325	СВ	ILE A	48	13.512	61.749	44.878	1.00 13.87	6
MOTA	326	CG2	ILE A	48	12.415	61.715	43.809	1.00 13.87	6
ATOM	327	CG1	ILE A	48	12.859	61.582	46.244	1.00 13.87	6

ATOM 330 O ILE A 48 14.926 61.155 42.337 1.00 52.63 8 ATOM 331 N PRO A 49 13.394 58.110 43.655 1.00145.29 6 ATOM 332 CD PRO A 49 13.394 58.110 43.655 1.00145.29 6 ATOM 333 CA PRO A 49 13.797 57.525 41.428 1.00145.15 6 ATOM 333 CB PRO A 49 12.979 57.525 41.428 1.00145.15 6 ATOM 335 CG PRO A 49 13.122 59.903 40.544 1.00 40.28 6 ATOM 336 C PRO A 49 13.122 59.903 40.544 1.00 40.28 6 ATOM 337 O PRO A 49 13.122 59.903 40.544 1.00 40.28 6 ATOM 338 N GLY A 50 13.547 59.985 49.286 1.00 41.27 7 ATOM 339 CA GLY A 50 13.505 60.639 41.028 1.00 39.98 8 ATOM 339 CA GLY A 50 13.505 60.947 38.349 1.00 40.92 6 ATOM 340 C GLY A 50 13.100 60.947 38.349 1.00 40.92 6 ATOM 341 O GLY A 50 13.762 59.439 36.615 1.00 38.85 8 ATOM 342 N THR A 51 12.704 61.013 34.593 1.00 42.55 7 ATOM 344 CB THR A 51 12.704 61.013 34.593 1.00 42.55 7 ATOM 346 CG2 THR A 51 11.383 60.828 33.998 1.00 61.58 6 ATOM 340 C THR A 51 10.709 62.095 33.965 1.00 61.88 6 ATOM 340 C THR A 51 10.569 59.864 34.849 1.00 62.73 6 ATOM 340 C THR A 51 10.569 59.864 34.849 1.00 62.73 6 ATOM 340 C THR A 51 10.569 59.864 34.849 1.00 62.73 6 ATOM 340 C THR A 51 13.023 63.323 33.985 1.00 61.58 6 ATOM 340 C THR A 51 13.626 62.941 32.469 1.00 40.65 8 ATOM 340 C THR A 51 13.626 62.941 32.469 1.00 33.86 6 ATOM 340 C THR A 51 13.626 62.941 32.469 1.00 30.42 6 ATOM 350 CA ALA A 52 16.836 62.941 32.469 1.00 30.42 6 ATOM 350 CA ALA A 52 16.836 62.942 32.469 1.00 33.86 6 ATOM 351 CB ALA A 52 16.615 61.364 30.883 1.00 27.97 6 ATOM 353 O ALA A 52 16.615 61.364 30.883 1.00 27.97 6 ATOM 354 N VAL A 53 15.887 63.478 30.195 1.00 33.86 6 ATOM 355 CA VAL A 53 15.887 63.478 30.195 1.00 33.86 6 ATOM 360 C THR A 54 19.569 59.864 34.849 1.00 33.86 6 ATOM 361 N THR A 54 19.569 59.864 34.849 1.00 33.86 6 ATOM 363 CB THR A 54 19.569 59.864 34.849 1.00 33.86 6 ATOM 360 C VAL A 53 15.887 63.478 30.195 1.00 33.16 7 ATOM 360 C VAL A 53 15.887 63.478 30.195 1.00 33.16 7 ATOM 360 C VAL A 53 15.887 63.478 30.195 1.00 33.16 7 ATOM 360 C C THR A 54 19.696 59.742 28.906 1.00 34.88 6 ATOM 363 C C THR A 54 19.696 59.		TOM TOM	328 329	CD1 C	ILE A	48 48	11.777 14.472	62.610 60.333	46.523 43.151	1.00 13.87 1.00 50.88	6 6
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ATOM 378 CG2 VAL A 56 18.899 65.343 20.784 1.00 15.68 6 ATOM 379 C VAL A 56 19.843 62.892 20.219 1.00 52.77 6 ATOM 380 O VAL A 56 20.836 63.586 20.009 1.00 53.75 8 ATOM 381 N TYR A 57 19.306 62.103 19.292 1.00 49.16 7 ATOM 382 CA TYR A 57 19.842 62.065 17.935 1.00 50.62 6	A.	Γ OM	376	CB	VAL A	56	18.463	64.291	21.818	1.00 18.02	6
ATOM 379 C VAL A 56 19.843 62.892 20.219 1.00 52.77 6 ATOM 380 O VAL A 56 20.836 63.586 20.009 1.00 53.75 8 ATOM 381 N TYR A 57 19.306 62.103 19.292 1.00 49.16 7 ATOM 382 CA TYR A 57 19.842 62.065 17.935 1.00 50.62 6	A'.	TOM			VAL A						
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	A'.	TOM	383	CB	TYK A	5/	19.973	60.627	17.431	1.00 56.89	6

ATOM 433 N HIS A 63 27.095 66.430 15.162 1.00 68.14 7 ATOM 434 CA HIS A 63 27.188 66.533 16.622 1.00 68.73 6
ATOM 434 CA HIS A 63 27.188 66.533 16.622 1.00 68.73 6

ATOM	440	NE2	HIS A	63	28.692	62.719	18.144	1.00112.76	7
ATOM	441	С	HIS A	63	26.760	67.921	17.067	1.00 67.23	6
ATOM	442	0	HIS A	63	26.497	68.774	16.225	1.00 67.52	8
ATOM	443	N	GLU A	64	26.687	68.145	18.380	1.00 95.10	7
ATOM	444	CA	GLU A	64	26.269	69.438	18.922	1.00 93.64	6
ATOM	445	CB	GLU A	64	26.480	69.480	20.439	1.00 79.44	6
ATOM	446	CG	GLU A	64	25.731	70.615	21.143	1.00 79.44	6
ATOM	447	CD OF1	GLU A	64	25.248	70.242	22.554	1.00 81.25	6
ATOM	448	OE1	GLU A	64	25.604	69.147	23.047	1.00 81.28	8
ATOM	449	OE2	GLU A	64	24.508	71.045	23.174	1.00 81.64	8
MOTA	450	С	GLU A	64	27.054	70.548	18.240	1.00 91.41	6
ATOM	451	0	GLU A	64	28.046	70.278	17.562	1.00 92.49	8
ATOM	452	\mathbf{N}	PHE A	65	26.617	71.791	18.420	1.00 22.51	7
ATOM	453	CA	PHE A	65	27.266	72.948	17.782	1.00 20.38	6
ATOM	454	CB	PHE A	65	28.801	72.924	17.954	1.00 28.12	6
ATOM	455	CG	PHE A	65	29.236	72.710	19.363	1.00 24.54	6
ATOM	456	CD1	PHE A	65	29.535	71.434	19.827	1.00 22.93	6
ATOM	457	CD2	PHE A	65	29.224	73.757	20.267	1.00 23.17	6
ATOM	458	CE1	PHE A	65	29.804	71.197	21.170	1.00 21.54	6
ATOM	459	CE2	PHE A	65	29.489	73.530	21.616	1.00 21.40	6
ATOM	460	CZ	PHE A	65	29.777	72.247	22.062	1.00 20.54	6
ATOM	461	C	PHE A	65	26.924	72.930	16.294	1.00 20.54	6
	462	0	PHE A	65	27.787	73.189	15.447	1.00 13.34	8
ATOM		-					15.447	1.00 17.93	
ATOM	463	N	SER A	66	25.660	72.621			7
ATOM	464	CA	SER A	66	25.167	72.543	14.614	1.00108.68	6
ATOM	465	CB	SER A	66	24.507	71.186	14.365	1.00131.29	6
ATOM	466	OG	SER A	66	25.451	70.136	14.446	1.00132.76	8
ATOM	467	C	SER A	66	24.184	73.648	14.239	1.00107.83	6
ATOM	468	0	SER A	66	24.159	74.706	14.859	1.00109.21	8
ATOM	469	N	THR A	67	23.368	73.384	13.223	1.00 37.78	7
ATOM	470	CA	THR A	67	22.399	74.358	12.731	1.00 37.55	6
ATOM	471	CB	THR A	67	23.084	75.605	12.161	1.00 38.25	6
ATOM	472	OG1	THR A	67	22.154	76.305	11.322	1.00 36.51	8
ATOM	473	CG2	THR A	67	24.319	75.214	11.337	1.00 36.90	6
ATOM	474	С	THR A	67	21.540	73.785	11.614	1.00 37.84	6
ATOM	475	0	THR A	67	21.777	74.052	10.435	1.00 38.15	8
ATOM	476	N	ILE A	68	20.535	73.011	12.005	1.00 72.99	7
ATOM	477	CA	ILE A	68	19.602	72.365	11.088	1.00 74.27	6
ATOM	478	CB	ILE A	68	18.499	71.679	11.878	1.00 43.22	6
ATOM	479	CG2	ILE A	68	17.632	70.891	10.946	1.00 43.12	6
ATOM	480			68	19.109	70.788	12.957	1.00 42.80	6
ATOM	481	CD1	ILE A	68	18.125	70.363	14.024	1.00 42.11	6
ATOM	482	C	ILE A	68	18.915	73.306	10.093	1.00 74.17	6
ATOM	483	Ö	ILE A	68	17.998	74.036	10.470	1.00 75.51	8
ATOM	484	Ň	PRO A	69	19.335	73.293	8.808	1.00 47.83	7
ATOM	485	CD	PRO A	69	20.552	72.652	8.266	1.00 30.92	6
ATOM	486	CA	PRO A	69	18.723	74.161	7.790	1.00 48.16	6
ATOM	487	CB	PRO A	69	19.365	73.676	6.497	1.00 30.11	6
ATOM	488	CG	PRO A	69	20.781	73.419	6.965	1.00 30.11	6
ATOM	489	C	PRO A	69	17.204	74.102	7.739	1.00 30.32	6
ATOM	490	0	PRO A	69 69	16.616	73.020	7.739	1.00 46.97	8
ATOM	490	N	GLY A	70	16.586	75.283	7.799	1.00 46.45	7
	491	CA	GLY A	70	15.138	75.263	7.753	1.00 82.04	6
ATOM ATOM	492	CA	GLY A	70 70	15.138 14.471	75.570	9.106	1.00 83.42	6
	493	0	GLY A	70 70	13.249	75.722	9.106	1.00 83.11	8
ATOM ATOM	494	N	VAL A	70 71	15.249	75.748	10.170	1.00 83.49	7
AIOH	490	ΤΛ	AVT Y	1 1	13.200	13.340	10.1/0	T.OO 77.77	,

ATOM 548 OE2 GLU A 77 17.394 79.660 20.387 1.00 65.41 8 ATOM 549 C GLU A 77 18.295 74.393 22.206 1.00 75.12 6 ATOM 550 O GLU A 77 17.823 74.062 23.293 1.00 75.46 8	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 49499901234567899012345678990123456789901234567899012345678990123456789901234567899012345678990123456789901234567899012345678990123345900000000000000000000000000000000000$	OD2 C O N CA CB CG1 CG2 C O N CA CB CG1 CG2 C C C C C C C C C C C C C C C C C C	VAL A A A A A A A A A A A A A A A A A A	777777777777777777777777777777777777	14.738 15.182 14.438 14.923 15.254 16.385 14.422 14.794 13.567 11.769 15.8867 11.769 15.980 16.475 15.911 14.399 13.844 17.945 18.520 18.520 18.530 20.808 22.192 22.333 23.137 20.085 19.780 20.710 21.747 21.643 21.539 21.987 22.347 22.347 22.347 22.347 22.347 22.347 23.393 24.480 21.643 21.643 21.643 21.747 21.643 21.747 21.643 21.987 22.347 22.347 23.393 24.480 21.067 20.494 19.235 18.347 16.026	78.040 78.467 77.287 77.864 76.388 75.994 77.116 76.656 75.533 74.747 74.783 73.661 72.400 71.469 70.059 71.446 72.538 71.853 73.411 73.584 74.592 73.977 73.271 75.098 75.587 76.604 77.953 78.659	11.519 12.462 13.787 11.8109 11.857 12.910 13.5599 14.8307 15.9507 14.5003 15.7009 17.5520 17.5920 17.5930 17.5930 17.5930 17.9367 17.9368 17.	1.00 25.88 1.00 69.23 1.00 69.55 1.00 69.40 1.00 24.57 1.00 23.69 1.00 61.86 1.00 80.38 1.00 81.39 1.00 82.45 1.00 83.55 1.00 85.83 1.00 61.01 1.00 60.86 1.00 37.71 1.00 38.31 1.00 65.67 1.00 65.67 1.00 66.19 1.00 67.76 1.00 37.99 1.00 38.72 1.00 82.96 1.00 52.36 1.00 52.36 1.00 52.36 1.00 52.36 1.00 80.79 1.00 81.18 1.00 40.61 1.00 38.44 1.00 21.23 1.00 17.92 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.36 1.00 38.37 1.00 64.71	6666687666676876668868766688687666687666876668
ATOM 551 N ILE A 78 18.038 73.755 21.066 1.00 32.87 7	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	544 545 546 547 548 549	CB CG CD OE1 OE2 C	GLU A GLU A GLU A GLU A GLU A GLU A	77 77 77 77 77 77	18.611 18.347 17.173 16.026 17.394 18.295	76.604 77.953 78.659 78.202 79.660 74.393 74.062	21.133 21.750 21.102 21.309 20.387 22.206	1.00 63.33 1.00 64.17 1.00 64.78 1.00 64.71 1.00 65.41 1.00 75.12	6 6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	55345555555555555555555555555555555555	CA CB CG2 CG1 CD1 C O N CA CB CG2 CG1 CD1 C O N CA	ILE A	78 78 78 78 78 79 79 79 79 79 80	17.1 17.4 16.5 17.6 17.4 16.5 18.7 20.5 20.5 21.8 18.5 19.6	106 73 570 70 049 72 168 73 162 73 544 73 737 73 512 69 557 69 561 68 390 68 951 73 754 70	2.583 1.828 0.569 2.743 2.214 1.645 1.361 0.471 9.240 8.981 8.301 1.160 0.499 2.488 3.250	20.982 19.661 19.627 18.482 17.114 22.136 22.818 22.362 23.441 23.281 24.534 22.113 21.967 24.784 25.810 24.786 26.023	1.00 1.00 1.00 1.00 1.00 1.00 1.00	30.59 32.78 31.04 33.50 34.08 30.32 29.37 37.89 39.91 45.66 45.36 46.47 48.56 41.42 42.07 89.16 89.46	6666668766666876
ATOM ATOM	569 570	CB CG	LEU A LEU A	80 80	19.4 20.9	982 74	4.678 4.838	25.856 26.063	1.00 1.00	35.09 34.34	6 6
ATOM ATOM	571 572	CD1 CD2	LEU A LEU A	80 80	21.4 21.3	331 74	6.281	25.845 27.482	1.00	34.07 33.85	6
ATOM ATOM	573 574	C 0	LEU A LEU A	80 80	17.4 17.1	120 73	3.279 3.370	26.425 27.609	1.00 1.00	89.37 90.96	6 8
ATOM ATOM	575 576	N CA	ASN A ASN A	81 81	16.5 15.1		3.189 3.170	25.428 25.674	$1.00 \\ 1.00$	41.89 41.74	7 6
ATOM ATOM	577 578	CB CG	ASN A ASN A	81 81	14.3 14.5		3.564 5.019	24.412 24.024	1.00	69.15 70.45	6 6
ATOM	579	OD1	ASN A	81	15.6	561 7	5.406	23.595	1.00	70.24	8
ATOM	580	ND2	ASN A	81	13.5		5.833	24.180	1.00	71.82	7
ATOM ATOM	581 582	C O	ASN A ASN A	81 81	14.5 14.1		1.766 1.601	26.125 27.200	1.00	40.96	6 8
MOTA	583	N	LEU A	82	15.0		0.755	25.316	1.00	63.42	7
MOTA	584	CA	LEU A	82	14.7	724 6	9.372	25.667	1.00	64.05	6
MOTA	585	CB	LEU A	82	15.3		8.366	24.700	1.00	58.81	6
ATOM	586	CG	LEU A	82	14.9		8.301	23.231	1.00	59.30	6
MOTA MOTA	587 588	CD1 CD2	LEU A LEU A	82 82	15.6 13.4		7.112 8.159	22.568 23.123	1.00	58.70 59.58	6 6
ATOM	589	CDZ	LEU A	82	15.2		9.062	27.074	1.00	64.25	6
ATOM	590	0	LEU A	82	14.6	529 6	8.233	27.766	1.00	64.54	8
ATOM	591	N	LYS A	83	16.2		9.730	27.504	1.00	93.29	7
MOTA	592 593	CA CB	LYS A LYS A	83 83	16.5 17.9		9.490 0.441	28.835 29.100		95.39 57.62	6 6
MOTA MOTA	594	CG	LYS A	83	18.6		0.272	30.464		58.61	6
ATOM	595	CD	LYS A	83	19.9		0.983	30.554	1.00	58.45	6
MOTA	596	CE	LYS A	83	21.0		0.259	29.735		58.82	6
ATOM	597	NZ	LYS A	83	22.3		0.853	29.907		57.41 96.28	7
ATOM ATOM	598 599	C O	LYS A LYS A	83 83	15.6 15.7		9.675 9.164	29.871 30.990		97.41	6 8
ATOM	600	N	GLU A	84	14.5		0.368	29.472		83.14	7
ATOM	601	CA	GLU A	84	13.4		0.653	30.354		83.07	6
ATOM	602	CB	GLU A	84	13.0		2.108	30.185		62.64	6
ATOM ATOM	603 604	CG CD	GLU A GLU A	84 84	14.0 13.		3.098 4.495	30.716 30.214		63.41 65.27	6 6
ATOM	605	OE1		84	12.5		4.877	30.155		66.33	8
MOTA	606	OE2		84	14.	719 7.	5.216	29.883	1.00	66.86	8
MOTA	607	С	GLU A	84	12.2	200 6.	9.779	30.191	1.00	82.17	6

ATOM	608	0	GLU A	84	11.248	69.902	30.957	1.00 82.78	8
ATOM	609	N	LEU A	85	12.199	68.913	29.189	1.00 32.42	7
ATOM	610	CA	LEU A	85	11.065	68.033	28.929	1.00 30.61	6
ATOM	611 612	CB	LEU A	85 85	11.322	67.244	27.649	1.00 29.83	6
ATOM ATOM	613	CG CD1	LEU A LEU A	85	10.253 9.219	66.272 67.034	27.182 26.338	1.00 28.15 1.00 27.30	6 6
ATOM	614	CD1	LEU A	85	10.921	65.138	26.386	1.00 27.30	6
ATOM	615	CDZ	LEU A	85	10.857	67.065	30.086	1.00 27.01	6
ATOM	616	Õ	LEU A	85	11.779	66.380	30.499	1.00 28.59	8
ATOM	617	Ň	VAL A	86	9.645	67.007	30.617	1.00 42.85	7
ATOM	618	CA	VAL A	86	9.384	66.093	31.716	1.00 43.95	6
ATOM	619	CB	VAL A	86	8.760	66.804	32.932	1.00 39.00	6
ATOM	620	CG1	VAL A	86	7.557	67.620	32.527	1.00 38.89	6
ATOM	621	CG2	VAL A	86	8.368	65.766	33.960	1.00 40.01	6
ATOM	622	C	VAL A	86	8.462	64.972	31.298	1.00 43.36	6
ATOM	623	0	VAL A	86	7.309	65.215	30.938	1.00 43.19	8
ATOM	624	N	VAL A	87	8.966	63.743	31.351	1.00 21.15	7
ATOM ATOM	625 626	CA	VAL A	87 87	8.154 8.903	62.603	30.958	1.00 23.38 1.00 39.94	6 6
ATOM	627	CB CG1	VAL A VAL A	87	9.272	61.625 62.330	30.004 28.711	1.00 39.94	6
ATOM	628	CG2	VAL A	87	10.139	61.075	30.676	1.00 40.80	6
ATOM	629	C	VAL A	87	7.702	61.822	32.157	1.00 42.12	6
ATOM	630	Ö	VAL A	87	8.396	61.768	33.169	1.00 23.51	8
ATOM	631	N	ARG A	88	6.512	61.243	32.026	1.00 76.51	7
ATOM	632	CA	ARG A	88	5.903	60.411	33.049	1.00 80.48	6
ATOM	633	CB	ARG A	88	4.408	60.688	33.132	1.00 63.66	6
ATOM	634	CG	ARG A	88	3.694	59.846	34.164	1.00 64.46	6
ATOM	635	CD	ARG A	88	2.414	60.503	34.634	1.00 65.19	6
ATOM	636	NE	ARG A	88	1.763	59.729	35.683	1.00 66.10	7
MOTA	637	CZ	ARG A	88	0.793	60.196	36.463	1.00 68.02	6
MOTA MOTA	638 639	NH1 NH2	ARG A	88 88	0.259 0.356	59.417 61.443	37.392 36.322	1.00 69.40 1.00 68.70	7 7
ATOM	640	C	ARG A	88	6.142	59.014	32.517	1.00 82.14	6
MOTA	641	0	ARG A	88	6.387	58.861	31.326	1.00 83.19	8
ATOM	642	N	PHE A	89	6.073	57.991	33.362	1.00 58.23	7
ATOM	643	CA	PHE A	89	6.326	56.644	32.862	1.00 61.38	6
ATOM	644	СВ	PHE A	89	7.625	56.125	33.483	1.00 54.32	6
MOTA	645	CG	PHE A	89	8.849	56.458	32.668	1.00 52.53	6
MOTA	646	CD1	PHE A	89	8.843	57.539	31.788	1.00 51.76	6
ATOM	647	CD2	PHE A	89	9.994	55.672	32.752	1.00 51.86	6
MOTA	648		PHE A	89	9.953	57.831	31.009	1.00 50.89	6
MOTA MOTA	649 650	CE2 CZ	PHE A	89 89	11.114 11.091	55.956 57.037	31.976 31.097	1.00 50.55 1.00 50.23	6 6
ATOM	651	CZ	PHE A	89	5.210	55.595	32.952	1.00 50.23	6
MOTA	652	0	PHE A	89	5.355	54.491	32.432	1.00 64.67	8
MOTA	653	N	LEU A	90	4.097	55.938	33.591	1.00 77.73	7
ATOM	654	CA	LEU A	90	2.952	55.033	33.721	1.00 80.08	6
MOTA	655	CB	LEU A	90	2.105	55.065	32.447	1.00 30.07	6
MOTA	656	CG	LEU A	90	1.734	56.412	31.834	1.00 29.09	6
MOTA	657	CD1		90	0.710	56.165	30.757	1.00 28.59	6
MOTA	658	CD2	LEU A	90	1.149	57.351	32.870	1.00 29.27	6
MOTA	659 660	C	LEU A	90 90	3.250	53.569	34.042	1.00 81.65	6
ATOM ATOM	661	N O	LEU A ASP A	91	2.348 4.492	52.738 53.244	33.956 34.396	1.00 82.47 1.00108.42	8 7
ATOM	662	CA	ASP A	91	4.856	51.862	34.719	1.00103.42	6
MOTA	663	CB	ASP A	91	4.874	50.999	33.471	1.00109.60	6
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ATOM	664 665	CG	ASP A	91 91	6.2 6.5		50.931 51.826	32.855 32.056	1.00111.18 1.00111.61	6 8
ATOM ATOM	666	OD1 OD2	ASP A ASP A	91	7.0		49.995	33.190	1.00111.01	8
ATOM	667	C	ASP A	91	6.2		51.764	35.345	1.00111.70	6
ATOM	668	Ö	ASP A	91	6.9		52.736	35.366	1.00112.36	8
ATOM	669	N	PRO A	92	6.5		50.577	35.856	1.00 72.17	7
MOTA	670	CD	PRO A	92	5.6		49.603	36.396	1.00138.10	6
MOTA	671	CA	PRO A	92	7.9		50.389	36.475	1.00 72.33	6
MOTA	672	CB	PRO A	92	7.5		49.702	37.781	1.00138.16	6
MOTA	673	CG	PRO A	92	6.4		48.769	37.341	1.00138.73	6
MOTA	674	C	PRO A	92	8.9		49.564	35.655	1.00 71.96	6
MOTA	675	0	PRO A	92	8.5		48.719	34.844	1.00 71.56	8
ATOM	676	N	ALA A	93 93	10.1 11.2		49.841 49.132	35.874 35.225	1.00162.67 1.00162.90	7 6
ATOM ATOM	677 678	CA CB	ALA A ALA A	93	11.1		47.636	35.429	1.00102.30	6
ATOM	679	СВ	ALA A	93	11.5		49.407	33.747	1.00162.76	6
ATOM	680	Ö	ALA A	93	11.1		48.620	32.900	1.00162.55	8
MOTA	681	N	TRP A	94	12.2		50.493	33.442	1.00 96.59	7
ATOM	682	CA	TRP A	94	12.6		50.826	32.055	1.00 95.32	6
ATOM	683	СВ	TRP A	94	11.4		50.488	31.137	1.00107.02	6
MOTA	684	CG	TRP A	94	10.3		51.499	31.193	1.00108.85	6
MOTA	685	CD2	TRP A	94	9.6		52.086	30.083	1.00110.00	6
ATOM	686	CE2	TRP A	94	8.7		52.997	30.607	1.00111.39	6
ATOM	687	CE3	TRP A	94	9.7		51.932	28.695	1.00110.71	6 6
ATOM	688 689	CD1	TRP A	94 94	9.8 8.8		52.057 52.959	32.312 31.971	1.00110.15 1.00111.87	7
ATOM ATOM	690	NE1 CZ2	TRP A	94	7.8		53.756	29.792	1.00111.87	6
ATOM	691	CZ3	TRP A	94	8.9		52.687	27.885	1.00112.05	6
ATOM	692	CH2	TRP A	94	7.9		53.587	28.438	1.00112.66	6
ATOM	693	C	TRP A	94	13.0		52.272	31.763	1.00 92.85	6
ATOM	694	0	TRP A	94	12.9		53.149	32.623	1.00 92.99	8
MOTA	695	N	ARG A	95	13.4		52.482	30.514	1.00 77.36	7
MOTA	696	CA	ARG A	95	13.8		53.780	29.951	1.00 73.49	6
MOTA	697	CB	ARG A	95	15.3		53.988	30.002	1.00 89.27	6
MOTA	698	CG	ARG A	95 95	16.0 16.0		53.578 52.068	28.730 28.466	1.00 91.22 1.00 92.63	6 6
MOTA MOTA	699 700	CD NE	ARG A ARG A	95	16.7		51.720	27.231	1.00 94.64	7
ATOM	701	CZ	ARG A	95	16.7		50.500	26.706	1.00 96.74	, 6
ATOM	702	NH1	ARG A	95	16.1		49.483	27.305	1.00 97.64	7
ATOM	703	NH2	ARG A	95	17.4		50.299	25.579	1.00 98.03	7
MOTA	704	С	ARG A	95	13.3	379	53.654	28.493	1.00 69.86	6
ATOM	705	0	ARG A	95	13.3		52.562	27.946	1.00 70.69	8
ATOM	706	N	THR A	96	13.0		54.745	27.846	1.00 30.81	7
ATOM	707	CA	THR A	96	12.5		54.628	26.469	1.00 26.69	6
MOTA	708	CB OC1	THR A	96 96	10.9 10.5		54.571 54.617	26.415 25.053	1.00 13.87 1.00 13.87	6 8
ATOM ATOM	709 710	OG1 CG2	THR A	96	10.3		55.715	27.192	1.00 13.87	6
ATOM	711	CGZ	THR A	96	13.0		55.728	25.560	1.00 24.46	6
ATOM	712	Õ	THR A	96	13.9		56.467	25.967	1.00 23.10	8
ATOM	713	N	THR A	97	12.5		55.839	24.342	1.00 70.32	7
ATOM	714	CA	THR A	97	13.0		56.845	23.400	1.00 68.74	6
MOTA	715	СВ	THR A	97	14.0		56.273	22.467	1.00 66.34	6
MOTA	716	OG1	THR A	97	14.8		55.258	23.147	1.00 67.45	8
MOTA	717	CG2	THR A	97	15.0		57.381	21.986	1.00 65.31 1.00 67.24	6 6
ATOM	718 719	C O	THR A	97 97	11.9 11.6		57.494 56.927	22.497 21.478	1.00 67.24	8
ATOM	113	U	TUK H	<i>31</i>	TT.) <u>1.</u> J	JU. JZ/	Z1,410	1.00 00.97	J

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	777777777777777777777777777777777777	CONCACEGONCACECONCACECONCACEONCACONCACONCACONCAC	LEU A A A A A A A A A A A A A A A A A A A	99 99 99 100 100 100 100 100 100 101 101	10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	5624661373190031657929194258286339129372407372088970031302998666233319003165792919425828633912993724073720889700313029900	59.4783708.4783708.4783708.60.7627723.883708.7627723.8870.29871.662.29871.	22.856 22.079 22.750 24.077 23.797 24.931 20.638 20.348 19.746 18.322 17.487 16.058 18.045 18.045 18.058 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.368 17.37 11.815 10.478 9.672 12.623 13.129 11.811 12.932 10.003 9.806 8.488 7.673 7.133 9.456 10.003 9.806 8.927 7.925	1.00 38.90 1.00 36.55 1.00 32.16 1.00 31.78 1.00 31.19 1.00 30.42 1.00 35.43 1.00 37.05 1.00 13.87 1.00 28.58 1.00 29.22 1.00 29.54 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 24.43 1.00 26.73 1.00 23.82 1.00 19.65 1.00 19.44 1.00 55.57 1.00 58.59 1.00132.06 1.00135.60 1.00137.39 1.00139.28 1.00139.28 1.00139.80	766666687666687666668766667677687666876668868766876
ATOM ATOM ATOM	773 774 775	N CD CA	PRO A PRO A PRO A	. 105	5	.220 .240 .956	74.729 74.798 75.775	6.823 8.911	1.00121.54 1.00 82.59 1.00122.33	6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	776 777 778 779 780 781 782 783 784 785 787 791 792 793 794 795 799 800 800 800 800 800 800 800 800 800 8	CBGCCONCABGCCCCCOOCONCCBGCCCCCONCABCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	VAL A 108 VAL A 108 VAL A 109 ARG A 110 ALA A 110 ALA A 110 ALA A 111 VAL A 111	3.528 2.130 1.738 2.636 0.448 6.211 5.687 6.733 6.740 6.592 5.731 6.111 4.450 3.391 2.128 1.013 1.698 3.792 3.854	76.789 75.890 75.310 74.442 75.646 75.646 75.646 76.7913 76.6913 77.371 77.371 77.371 77.371 77.371 77.371 77.371 77.371 77.386 77.371 77.386	8.101 7.292 10.143 10.050 11.284 12.572 12.567 12.524 12.761 12.835 13.711 13.565 14.849 16.035 17.136 16.828 17.743 16.524 16.628 17.743 16.524 16.828 17.743 16.524 17.743 16.524 17.743 16.524 17.743 16.524 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.743 16.828 17.298 16.836 17.399 18.813 19.373 18.982 17.762 16.816 17.477 20.636 21.230 22.520 23.119 22.520 23.119 22.530 21.230	1.00 82.71 1.00 82.69 1.00121.71 1.00121.21 1.00 81.76 1.00 80.86 1.00 80.61 1.00 82.64 1.00 84.29 1.00 81.50 1.00 81.50 1.00 81.66 1.00 62.76 1.00 63.05 1.00 62.76 1.00 63.40 1.00 62.44 1.00 64.68 1.00 62.81 1.00 64.05 1.00 92.35 1.00 92.35 1.00 90.77 1.00 24.79 1.00 22.72 1.00 23.64 1.00 90.99 1.00 17.08 1.00 79.46 1.00 90.99 1.00 17.08 1.00 79.46 1.00 82.11 1.00 82.88 1.00 82.78 1.00 82.78 1.00 82.30 1.00 83.70 1.00 16.63 1.00 16.88 1.00 44.15 1.00 62.64 1.00 44.52 1.00 43.73 1.00 62.64 1.00 44.52 1.00 43.73 1.00 59.09 1.00 60.52 1.00208.87 1.00208.87 1.00208.87	66687666676876666886876666887666676776876668766688
ATOM ATOM ATOM ATOM ATOM ATOM	825 826 827 828 829 830	CG2 C O N CA CB	VAL A 111 VAL A 111 VAL A 111 ASP A 112 ASP A 112 ASP A 112	1.698 3.792 3.854 4.046 4.447 5.244	69.385 66.821 65.596 67.490 66.875 67.892	23.021 21.119 21.229 19.996 18.733 17.922	1.00208.87 1.00 58.77 1.00 58.31 1.00 43.13 1.00 43.00 1.00 56.89	6 8 7 6
ATOM	831	CG	ASP A 112	4.385	69.026	17.420	1.00 56.48	6

ATOM 884 CG2 VAL A 119 6.640 56.864 27.142 1.00139.26 6 ATOM 885 C VAL A 119 3.869 59.268 28.297 1.00142.87 6 ATOM 886 O VAL A 119 3.183 59.505 27.301 1.00143.40 8 ATOM 887 N GLU A 120 3.882 60.060 29.370 1.00 58.92 7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	889012345678900123456789001234567890123345678901200000000000000000000000000000000000	CB CG CD OE2 CO N CA CB CGD1 CD CO N CA CB CGD1 CD CO N CA CB CGD1 CD	GLU A 120 GLU A 121 ILE A 121 ILE A 121 ILE A 121 ILE A 122 MET A 123 ASN A 123	9.382 8.036	61.290 61.461 60.461 60.853 61.863 61.863 62.8889 62.8889 64.440 66.3.8769 63.471 65.471 65.4721 67.98029 67.8225 67.8225 67.8225 67.8225 69.5547 69.5547 69.5547 71.658 72.7620 73.775 73.7755	29.402 30.708 30.889 31.938 33.096 29.255 30.169 28.111 27.898 26.425 25.5968 28.406 30.1214 32.436 33.729 34.020 33.257 30.882 31.214 32.436 33.729 34.020 33.257 30.882 30.419 29.560 29.941 27.798 28.425 26.375 27.798 28.425 26.375 27.798 28.425 26.375 27.798 28.425 26.375 27.798 28.425 26.375 27.798 28.425 26.375 27.798 28.425 26.375 27.798 28.425 26.375 27.798 28.425 26.375 27.514 26.649 27.347 23.963	1.00 57.67 1.00 57.66 1.00 57.66 1.00 55.40 1.00 52.12 1.00 50.64 1.00 56.66 1.00 57.46 1.00 43.45 1.00 42.84 1.00 53.52 1.00 53.84 1.00 54.20 1.00 41.89 1.00 41.93 1.00 48.79 1.00 49.46 1.00 99.46 1.00100.08 1.00100.08 1.00100.32 1.00 47.40 1.00 47.59 1.00100.32 1.00 99.15 1.00 60.16 1.00 58.49 1.00 56.34 1.00 57.81 1.00 99.56 1.00 44.27 1.00 98.67 1.00 99.56 1.00 43.49 1.00 99.56 1.00 44.27 1.00 98.67 1.00 99.56 1.00 43.49 1.00 56.34 1.00 57.81 1.00 99.56 1.00 44.27 1.00 98.67 1.00 99.56 1.00 43.49 1.00 57.81 1.00 99.56 1.00 43.49 1.00 59.76 1.00 43.49 1.00 59.76 1.00 59.76 1.00 59.76 1.00 59.76 1.00 29.23 1.00 22.23 1.00 22.23 1.00 22.23 1.00 22.23	666688687666668766668766687688768766688766688766688
ATOM	943	N	HIS A 127	8.045	74.942	24.062	1.00 67.12	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	99999999999999999999999999999999999999	ND1 CE1 NE2 C O N CA CB CG1 C O N CA CB CG2 C O N CA CB CG2 C O N CA CB CG2 C O N CA CB CGC C O N CA CB C C C C C C C C C C C C C C C C C C	HIS S A A A A A A A A A A A A A A A A A A	127 127 127 127 127 127 127 127 127 127	8.619 8.936 9.494 10.036 9.542 10.091 10.399 9.862 10.961 9.698 10.383 11.557 9.741 11.618 12.840 10.947 11.644 12.309 10.795 10.032 10.957 10.222 10.261 9.874 11.369 10.5597 11.388 10.597 11.388 10.597 11.388 10.597 11.388 10.5597 11.388 10.555 9.125 10.9656 10.300 11.519 9.860 10.300 11.519 9.860 10.300 11.519 9.860 10.300 11.519 9.860 10.452	75.246 76.739 77.146 76.418 78.461 78.526 77.301 74.450 74.800 73.415 72.595 71.144 70.660 70.757 73.032 72.839 73.614 74.037 72.821 74.780 74.176 76.922 78.415 76.922 78.421 77.711 75.590 77.711 75.590 77.711 75.5865 76.101 76.785 76.785 76.101 76.785 76.785 76.785 76.785 76.785 76.785 78.624 79.329 77.711 75.865 76.785 76.101 76.785 76.785 76.785 76.785 76.785 76.785 78.510	22.747 22.638 21.306 20.299 20.895 19.696 19.311 22.375 22.780 21.561 21.176 21.000 20.617 22.303 23.436 19.937 19.889 17.712 17.053 16.673 15.920 16.626 15.685 16.114 17.193 14.972 14.271 13.718 13.684 12.126 12.723 11.587 10.045 9.488 9.947 11.587 10.045 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084 9.488 9.947 11.084	1.00 68.12 1.00 79.55 1.00 81.29 1.00 81.61 1.00 82.58 1.00 82.91 1.00 82.76 1.00 67.26 1.00 67.26 1.00 26.95 1.00 26.01 1.00 19.30 1.00 18.67 1.00 26.70 1.00 26.62 1.00 61.74 1.00 63.00 1.00 29.93 1.00 62.52 1.00 62.52 1.00 62.23 1.00 42.47 1.00 44.16 1.00 37.02 1.00 36.43 1.00 44.81 1.00 45.51 1.00 69.43 1.00 70.26 1.00 20.66 1.00 20.91 1.00 18.41 1.00 71.29 1.00 34.39 1.00 71.02 1.00 37.30 1.00144.24 1.00146.96 1.00149.93 1.00149.93 1.00149.02 1.00 37.42 1.00 36.86 1.00 74.32 1.00 76.30 1.00107.76 1.00110.53 1.00112.96	66667676876666687666876688668766668766688766688766668
MOTA MOTA	991 992 993 994 995 996 997 998	CA CB	GLU A	133 133 133 133 133 133 133 133	9.860 10.583 9.686 10.452 11.503 9.991 10.735 11.134	76.865 78.192 79.264 80.510 80.360 81.642 75.674 75.556	5.211 4.931 4.291 3.820 3.155 4.099 4.796 3.641	1.00 76.30 1.00107.76 1.00110.53 1.00112.96 1.00114.35 1.00113.77 1.00 76.32 1.00 76.78	6 6 6 8 8 6 8
MOTA	999	N	GLY A	134	11.012	74.786	5.748	1.00 49.88	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1031 1031 1031 1031 1031 1031 1031 103	C O N CA CB CCZ OH C O N CA CB CCG CD CE2 CZ OH C O N CA CB CCG CD OE1 OE2	GLU A 140	15.425 13.406 14.026 13.116 13.541 12.599 13.185 14.506 12.211 13.742 14.491 13.111 13.216 13.480 13.352 12.109 11.996 14.477 14.369 13.128 13.038 14.234 15.438 13.734 14.595 14.544 14.819 14.970 13.312 14.271 13.125 15.286 15.118 15.884 15.386 16.270 16.632 16.601	73.610 72.535 71.9566 72.2366 71.95669.8295 71.95669.8344 70.8295 68.8441 68.2205 66.7351 67.4851 68.465.9661 68.4	5.486 6.528 7.367 6.484 7.433 7.445 6.541 8.477 8.579 7.689 7.540 6.316 10.028 10.542 10.691 12.074 12.968 14.370 14.245 15.277 12.703 13.667 12.760 11.710 12.741 13.476 13.476 13.476 13.8691 13.476 13.8691 13.877 17.525 17.6367 17.525 17.5	1.00 49.15 1.00 48.48 1.00 47.28 1.00100.77 1.00100.88 1.00101.39 1.00 53.75 1.00 52.81 1.00 74.23 1.00 75.69 1.00 75.71 1.00 76.06 1.00 77.03 1.00 50.77 1.00 50.85 1.00 63.98 1.00 62.44 1.00 36.13 1.00 34.38 1.00 34.37 1.00 33.90 1.00 61.48 1.00 62.25 1.00 28.02 1.00 26.33 1.00 33.29 1.00 27.96 1.00 27.96 1.00 27.96 1.00 27.96 1.00 27.96 1.00 25.43 1.00 25.01 1.00 25.01 1.00 23.65 1.00 33.00 1.00 35.08 1.00 34.13 1.00 34.13 1.00 34.13 1.00 34.95 1.00 56.32 1.00 58.63 1.00 58.67 1.00 58.67 1.00 58.63	66876687666676876666687666687666887666886
ATOM ATOM	1048 1049	CD OE1	GLU A 140 GLU A 140	16.270 16.632 16.601 15.786 16.996 15.024 15.589	57.087 56.255	16.109 16.972	1.00 58.99 1.00 58.20	6 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1071 1072 1073 1074 1077 1078 1079 1081 1083 1084 1084 1085 1096 1097 1098 1099 1099 1099 1100 1100 1100 1100	CG2 C O N CAB CGD NE Z 11 C O N CAB CGC C C C C C C C C C C C C C C C C C	VAL A 143 VAL A 143 ASP A 144 ASP A 145 ARG A	17.858 17.552 16.400 18.598 18.475 18.679 18.986 17.441	63.001 63.081 60.502 60.615 58.885 757.701 58.497 57.701 59.2745 59.5266 59.2420 50.7428 50.7428 50.7428 50.7428 50.9434 50.9444 50.9434 50.9434 50.9434 50.9434 50.9434 50.9434 50.9434 50.94	21.501 23.658 23.232 23.837 23.644 24.832 25.319 25.461 26.556 26.633 27.562 27.060 28.285 28.052 27.060 29.463 29.938 31.235 30.264 29.938 31.235 30.264 30.358 31.359	1.00 30.27 1.00 30.89 1.00 13.87 1.00 15.97 1.00 17.66 1.00 36.74 1.00 35.26 1.00 33.63 1.00 35.05 1.00 35.05 1.00 35.05 1.00 36.63 1.00 35.26 1.00 17.69 1.00 52.69 1.00 55.71 1.00156.86 1.00158.32 1.00159.44 1.00 55.82 1.00 36.24 1.00 35.56 1.00 36.24 1.00 35.56 1.00 36.24 1.00 44.54 1.00 44.54 1.00 44.54 1.00 44.54 1.00 44.64 1.00 44.72 1.00 35.85 1.00 35.46 1.00 35.46 1.00 90.29 1.00 92.68 1.00 93.22 1.00 95.42 1.00 95.42 1.00 97.11 1.00 97.11 1.00 97.11 1.00 97.11 1.00 49.96 1.00 49.87 1.00 49.87 1.00 49.96 1.00 49.74 1.00 49.96 1.00 49.96 1.00 23.97 1.00 46.92 1.00 47.27	666876666767768766666876668868766667677687668766668
ATOM ATOM ATOM ATOM	1104 1105	CG1 CG2	VAL A 147 VAL A 147	18.986 17.441 19.507 20.706	59.458 57.975	42.698 41.450	1.00 25.16 1.00 23.97	6 6
ATOM ATOM ATOM ATOM	1108 1109 1110 1111	CA C O	GLY A 148 GLY A 148 GLY A 148	19.952 20.387	63.271 63.969 64.060	41.210 39.941 38.989	1.00 42.13 1.00 41.88 1.00 41.60	6 6 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138	N CA CB CG CD1 CE1 CD2 CZ OH C O N CA CG2 C C O N CD CA CB CG2 C O N CD CA CB C O N CD CA CB C O N C O	VAL A VAL A PRO A A PRO A	149 149 149 149 149 149 149 149 149 150 150 150 150 151 151 151 151 151	21.633 22.211 22.611 23.243 22.743 23.279 24.300 24.842 24.323 24.840 23.429 24.454 23.318 24.426 24.146 25.343 23.971 25.715 26.346 27.167 26.658 26.716 26.354 27.615	64.443 65.167 66.564 67.432 67.479 68.353 68.274 69.153 69.188 70.082 64.449 64.334 63.971 63.258 61.733 61.022 61.150 63.794 63.450 64.642 65.312 65.283 66.665 64.407 63.243 65.001	39.931 38.798 39.267 38.220 36.925 35.971 38.542 37.600 36.318 35.409 38.216 38.884 36.976 36.318 36.207 35.593 37.578 34.915 33.986 34.754 35.904 35.904 35.901 35.336 32.387 32.226 31.611	1.00 56.71 1.00 56.25 1.00 33.62 1.00 29.72 1.00 27.89 1.00 25.22 1.00 28.71 1.00 26.48 1.00 24.38 1.00 20.70 1.00 57.82 1.00 57.82 1.00 58.18 1.00 25.17 1.00 27.90 1.00 43.10 1.00 43.85 1.00 43.85 1.00 30.48 1.00 31.06 1.00 54.43 1.00 128.16 1.00 57.01 1.00129.68 1.00 59.77 1.00 60.40 1.00 72.84	766666668687666687666687
MOTA	1139 1140	CA CB	ALA A ALA A	152	28.259 29.206	64.345 65.329	30.478 29.774	1.00 76.09 1.00 20.79	6 6
ATOM ATOM	1140	CP	ALA A		29.007	63.063	30.811	1.00 78.69	6
ATOM	1142	0	ALA A		29.763	62.562	29.983	1.00 79.51	8
ATOM	1142	N	GLU A		28.823	62.534	32.013	1.00107.48	7
ATOM	1144	CA	GLU A		29.483	61.283	32.357	1.00110.39	6
ATOM	1144	CB	GLU A		29.558	61.104	33.869	1.00169.79	6
ATOM	1145	CB	GLU A		29.938	59.697	34.286	1.00173.04	6
ATOM	1147	CD	GLU A		30.069	59.550	35.782	1.00175.00	6
MOTA	1148	OE1	GLU A		29.155	60.001	36.506	1.00175.25	8
ATOM	1149	OE2			31.082	58.977	36.237	1.00176.25	8
ATOM	1150	C	GLU A		28.674	60.135	31.741	1.00110.83	6
ATOM	1151	Ö	GLU A		29.210	59.299	31.013	1.00110.62	8
MOTA	1152	N	ARG A		27.378	60.107	32.037	1.00163.36	7
MOTA	1153	CA	ARG A		26.486	59.080	31.509	1.00164.22	6
ATOM	1154	CB	ARG A		25.102	59.221	32.158	1.00114.78	6
ATOM	1155	CG	ARG A		24.054	58.215	31.684	1.00115.49	6
ATOM	1156	CD	ARG A	154	22.905	58.046	32.703	1.00115.63	6
ATOM	1157	NE	ARG A	154	23.354	57.411	33.947	1.00115.68	7
MOTA	1158	CZ	ARG A		22.563	57.085	34.968	1.00115.42	6
MOTA	1159	NH1	ARG A		21.261	57.329	34.912	1.00114.73	7
MOTA	1160	NH2			23.080	56.515	36.051	1.00115.47	7
ATOM	1161	C	ARG A		26.387	59.257	29.997	1.00164.11	6
ATOM	1162	0	ARG A		25.448	59.885	29.504	1.00164.81	8
ATOM	1163	N	HIS A		27.353	58.698	29.267	1.00 75.45	7
ATOM	1164	CA	HIS A		27.383	58.827	27.810	1.00 74.77	6
ATOM	1165	CB	HIS A		28.447	57.910	27.201	1.00177.89 1.00178.95	6 6
MOTA	1166	CG	HIS A		28.748	58.216	25.767 24.641	1.00178.93	6
ATOM	1167	CD2	HIS A	133	28.569	57.486	74.04I	T.OOT/2.1T	O

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1180 1181 1182 1183 1184 1185 1186 1187 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202	CE1 NE2 C O N CA C C O N CA C C C C C C C C C C C C C C C C C	HIS A 155 HIS A 155 HIS A 155 HIS A 155 GLY A 156 GLY A 156 GLY A 156 GLY A 156 ILE A 157 ILE A	29.416 28.990 26.034 25.253 25.775 24.516 24.550 23.700 25.542 25.707 26.239 7 26.255 7 26.255 7 26.255 8 22.333 8 21.270 8 23.588 8 22.333 8 21.270 8 24.409 24.148 8 23.588 8 22.333 8 21.270 8 24.409 24.148 8 23.588 8 22.333 8 21.270 8 21.270 8 21.270 8 22.263 8 22.363 8 22.363 8 22.363 8 22.363 8 22.363 8 22.363 8 22.363	59.420 58.258 57.708 59.297 59.171 58.229 58.300 57.349 56.357 55.025 54.632 55.164 55.165 55.557 54.851 55.951 54.895 55.839 57.125 53.895 54.727 53.895 54.727 55.839 57.125 56.950 57.125 56.950 57.125 56.950 57.125 56.950 57.357 55.839 57.125 56.950 57.357 55.839 57.125 56.950	25.361 24.047 23.586 27.148 27.594 26.073 25.361 24.184 23.302 24.182 23.135 23.747 24.964 22.688 23.140 22.353 21.376 22.795 22.113 22.390 23.491 23.177 24.290 24.162 20.609 20.115 19.889 18.426 17.907 16.505 15.544 16.363 17.983 16.866 18.881 18.631	1.00179.47 1.00179.70 1.00179.98 1.00 73.51 1.00 72.88 1.00 63.99 1.00 62.57 1.00 61.40 1.00 60.43 1.00 73.01 1.00 72.98 1.00101.08 1.00101.27 1.00102.19 1.00 72.00 1.00 71.90 1.00 71.90 1.00 97.31 1.00 97.31 1.00 97.31 1.00 97.28 1.00 94.87 1.00 93.51 1.00 93.51 1.00 93.51 1.00 95.93 1.00 86.33 1.00 85.93 1.00 86.75 1.00 84.74 1.00 56.46 1.00 55.59 1.00 87.56 1.00 87.56 1.00 87.56	76768766876666687666667687666886876
MOTA	1201	0	ASP A 159	9 24.054				
ATOM	1203	CA	ARG A 16			18.631	1.00 88.42	6
ATOM	1204	CB	ARG A 160			18.522	1.00102.75	6
ATOM	1205	ĊĠ	ARG A 16		53.008	19.844	1.00102.79	6
ATOM	1206	CD	ARG A 16			19.603	1.00102.12	6
MOTA	1207	NE	ARG A 16			20.833	1.00100.58	7
MOTA	1208	CZ	ARG A 16			20.860		
MOTA	1209	NH1				19.725	1.00100.25	7
MOTA	1210	NH2				22.014	1.00100.27 1.00 87.57	7 6
ATOM	1211	C	ARG A 16			17.393 16.456	1.00 87.37	8
ATOM	1212	0	ARG A 16			17.374	1.00106.49	7
MOTA	1213 1214	N	ILE A 16:			16.222	1.00100.45	6
ATOM ATOM	1214	CA CB	ILE A 16			14.931	1.00 48.58	6
ATOM	1216	CG2				15.052	1.00 47.75	6
ATOM	1217	CG1	ILE A 16			13.731	1.00 48.28	6
ATOM	1218	CD1	ILE A 16	1 26.382	2 57.777	12.355	1.00 48.64	6
ATOM	1219	С	ILE A 16			16.347	1.00103.31	6
MOTA	1220	0	ILE A 16			16.218	1.00103.93	8
MOTA	1221	N	ASN A 16			16.597	1.00 73.05	7
ATOM	1222	CA	ASN A 16			16.686	1.00 70.40 1.00 45.57	6 6
MOTA	1223	CB	ASN A 16	2 24.800	61.873	15.392	1.00 45.57	U

ATOM ATOM	1224 1225		ASN A 16 ASN A 16	2	25.310 26.494	61.112 61.185	14.168 13.807	1.00 45.25 1.00 44.13	6 8
ATOM	1226		ASN A 16		24.412	60.371	13.528	1.00 44.20	7
ATOM	1227	C	ASN A 16		24.569	61.701 62.728	17.876 17.924	1.00 68.28 1.00 68.79	6 8
ATOM	1228	O	ASN A 16		23.898 24.586	60.787	18.837	1.00 49.85	7
MOTA	1229 1230	N CA	ALA A 16 ALA A 16		24.586	60.767	20.039	1.00 49.83	6
ATOM ATOM	$\frac{1230}{1231}$	CB	ALA A 16		24.181	59.824	21.022	1.00113.93	6
ATOM	1231	C	ALA A 16		23.876	62.279	20.709	1.00 43.84	6
ATOM	1233	0	ALA A 16		22.933	62.712	21.366	1.00 42.33	8
ATOM	1234	Ň	ILE A 16		25.003	62.960	20.550	1.00 44.78	7
ATOM	1235	CA	ILE A 16		25.183	64.267	21.171	1.00 41.25	6
ATOM	1236	CB	ILE A 16		24.538	65.390	20.309	1.00 14.84	6
MOTA	1237	CG2	ILE A 16		24.860	65.165	18.847	1.00 13.87	6
MOTA	1238	CG1	ILE A 16		23.023	65.399	20.465	1.00 13.87	6
MOTA	1239	CD1	ILE A 16		22.358	66.472	19.666	1.00 13.87	6 6
ATOM	1240	C	ILE A 16		24.560 23.845	64.289 65.219	22.570 22.913	1.00 40.59 1.00 41.32	8
MOTA	$1241 \\ 1242$	O N	ILE A 16 PRO A 16		24.867	63.282	23.407	1.00 41.32	7
ATOM ATOM	1242	CD	PRO A 16		26.175	62.626	23.304	1.00 32.21	6
ATOM	1244	CA	PRO A 16	_	24.358	63.127	24.778	1.00 37.84	6
ATOM	1245	CB	PRO A 16		25.469	62.357	25.478	1.00 31.90	6
ATOM	1246	CG	PRO A 16	5	26.670	62.746	24.710	1.00 31.31	6
MOTA	1247	С	PRO A 16		24.057	64.433	25.473	1.00 38.07	6
ATOM	1248	0	PRO A 16		24.861	65.366	25.398	1.00 38.33 1.00 28.76	8 7
MOTA	1249	N	VAL A 16		22.908 22.462	64.488 65.687	26.152 26.869	1.00 28.76 1.00 28.17	6
ATOM ATOM	1250 1251	CA CB	VAL A 16		21.018	66.014	26.538	1.00 23.17	6
ATOM	1252	CG1			20.639	67.328	27.174	1.00 37.95	6
MOTA	1253	CG2	VAL A 16		20.830	66.045	25.056	1.00 37.42	6
MOTA	1254	С	VAL A 16		22.532	65.548	28.384	1.00 28.88	6
MOTA	1255	Ο	VAL A 16		22.344	64.452	28.927	1.00 29.93	8
MOTA	1256	N	ASP A 16		22.780	66.659	29.070	1.00 27.15	7
ATOM	1257	CA	ASP A 16		22.847 23.131	66.627 68.019	30.525 31.079	1.00 28.82 1.00 55.43	6 6
ATOM ATOM	1258 1259	CB CG	ASP A 16		24.512	68.503	30.750	1.00 56.58	6
ATOM	1260	OD1			25.452	67.682	30.781	1.00 57.79	8
ATOM	1261	OD2			24.654	69.709	30.478	1.00 55.60	8
ATOM	1262	Ċ	ASP A 16		21.540	66.119	31.133	1.00 28.92	6
ATOM	1263	Ο	ASP A 16	7	20.459	66.350	30.589	1.00 29.75	8
MOTA	1264	N	ALA A 16		21.632	65.448	32.271	1.00 33.33	7
ATOM	1265	CA	ALA A 16		20.445	64.928	32.920 33.243	1.00 35.59 1.00 46.87	6 6
MOTA	1266	CB	ALA A 16		20.649 20.098	63.459 65.700	34.193	1.00 40.87	6
ATOM ATOM	1267 1268	C 0	ALA A 16		20.096	66.214	34.871	1.00 37.01	8
MOTA	1269	N	ILE A 16		18.810	65.789	34.500	1.00 41.48	7
ATOM	1270	CA	ILE A 16		18.325	66.460	35.702	1.00 43.82	6
ATOM	1271	CB	ILE A 16		17.784	67.873	35.411	1.00 66.79	6
MOTA	1272	CG2	ILE A 16		17.951	68.745	36.637	1.00 67.21	6
ATOM	1273	CG1			18.515	68.500	34.224	1.00 68.86	6
ATOM	1274	CD1			19.952	68.843	34.495	1.00 71.35 1.00 44.59	6 6
ATOM ATOM	1275 1276	C O	ILE A 16		17.141 16.015	65.592 65.859	36.096 35.670	1.00 44.39	8
ATOM	1277	N	PHE A 17		17.395	64.559	36.895	1.00 43.12	7
ATOM	1278	CA	PHE A 17		16.356	63.613	37.308	1.00 63.83	6
MOTA	1279	СВ	PHE A 17		17.021	62.303	37.715	1.00 95.45	6

ATOM ATOM	1280 1281	CG CD1	PHE A 170 PHE A 170	17.810 17.184	61.673 61.259	36.614 35.450	1.00 98.05 1.00 97.88	6 6
ATOM	1282		PHE A 170	19.182	61.512	36.728	1.00 99.39	6
MOTA	1283		PHE A 170	17.914	60.693	34.418	1.00 97.26	6
MOTA	1284	CE2	PHE A 170	19.921	60.946	35.699	1.00 98.86	6 6
MOTA	1285	CZ	PHE A 170	19.288	60.539	34.544 38.378	1.00 97.30 1.00 64.23	6
MOTA	1286	C	PHE A 170	15.333	64.023 63.787	38.207	1.00 64.23	8
ATOM	1287	0	PHE A 170	14.134 15.785	64.620	39.476	1.00 34.72	7
MOTA	1288 1289	N CA	SER A 171 SER A 171	14.868	65.024	40.540	1.00 38.09	6
MOTA MOTA	1299	CB	SER A 171	15.535	66.065	41.444	1.00 78.49	6
ATOM	1291	OG	SER A 171	14.693	66.419	42.525	1.00 80.28	8
ATOM	1292	C	SER A 171	13.556	65.592	39.987	1.00 35.93	б
ATOM	1293	Ö	SER A 171	13.555	66.540	39.201	1.00 36.51	8
ATOM	1294	N	PRO A 172	12.419	64.991	40.369	1.00 48.33	7
ATOM	1295	CD	PRO A 172	12.324	63.681	41.039	1.00 44.87	6
ATOM	1296	CA	PRO A 172	11.098	65.448	39.916	1.00 47.93	6
ATOM	1297	CB	PRO A 172	10.238	64.206	40.068	1.00 43.94	6
MOTA	1298	CG	PRO A 172	10.838	63.550	41.291	1.00 44.29	6
MOTA	1299	С	PRO A 172	10.631	66.582	40.814	1.00 46.83	6
MOTA	1300	0	PRO A 172	9.736	67.335	40.472	1.00 47.00	8 7
ATOM	1301	N	VAL A 173	11.252	66.679	41.982	1.00 41.35 1.00 40.25	6
ATOM	1302	CA	VAL A 173	10.950	67.721 67.420	42.952 44.270	1.00 40.23	6
ATOM	1303	CB	VAL A 173 VAL A 173	11.693 11.439	68.512	45.283	1.00 20.43	6
MOTA	1304 1305	CG1 CG2	VAL A 173	11.245	66.063	44.815	1.00 30.41	6
ATOM ATOM	1305	CGZ	VAL A 173	11.445	69.031	42.342	1.00 39.45	6
ATOM	1307	0	VAL A 173	12.603	69.127	41.955	1.00 39.32	8
ATOM	1307	N	ARG A 174	10.589	70.038	42.237	1.00 59.70	7
ATOM	1309	CA	ARG A 174	11.034	71.288	41.625	1.00 62.26	6
ATOM	1310	CB	ARG A 174	10.105	71.677	40.469	1.00140.03	6
ATOM	1311	CG	ARG A 174	10.243	70.821	39.208	1.00144.79	6
MOTA	1312	CD	ARG A 174	11.541	71.100	38.433	1.00149.38	6
MOTA	1313	NE	ARG A 174	11.635	70.294	37.212	1.00151.23	7
MOTA	1314	CZ	ARG A 174	12.669	70.302	36.373	1.00151.78	6 7
ATOM	1315	NH1	ARG A 174	13.719	71.079	36.609 35.298	1.00152.98 1.00151.43	7
ATOM	1316	NH2	ARG A 174	12.658 11.190	69.523 72.490	42.555	1.00151.45	6
ATOM	1317	C	ARG A 174 ARG A 174	11.190	73.619	42.079	1.00 60.56	8
ATOM	1318 1319	O N	ARG A 174 ARG A 175	11.207	72.252	43.865	1.00 50.49	7
ATOM ATOM	1320	CA	ARG A 175	11.345	73.323	44.853	1.00 48.86	6
ATOM	1321	CB	ARG A 175	10.736	74.609	44.312	1.00 54.88	6
MOTA	1322	CG	ARG A 175	10.585	75.698	45.317	1.00 54.77	6
MOTA	1323	CD	ARG A 175	10.180	76.974	44.623	1.00 53.43	6
MOTA	1324	NE	ARG A 175	9.537	77.896	45.545	1.00 53.72	7
ATOM	1325	CZ	ARG A 175	9.203	79.137	45.232	1.00 53.04	6
MOTA	1326	NH1	ARG A 175	9.464	79.596	44.017	1.00 53.52	7
MOTA	1327	NH2		8.591	79.908	46.122	1.00 52.20	7
MOTA	1328	C	ARG A 175	10.610	72.895	46.109	1.00 48.09	6 8
MOTA	1329	0	ARG A 175	9.603	72.218	46.010 47.282	1.00 49.40 1.00 34.91	7
MOTA	1330	N	VAL A 176	11.104 10.473	73.282 72.902	48.552	1.00 34.91	6
MOTA	1331	CA CB	VAL A 176 VAL A 176	10.473	72.502	49.077	1.00 13.87	6
ATOM ATOM	1332 1333		VAL A 176	10.037	71.013	50.122	1.00 13.87	6
ATOM	1334		VAL A 176	11.208	70.567	47.947	1.00 13.87	6
ATOM	1335	C	VAL A 176	10.769	73.881	49.683	1.00 36.88	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1336 1337 1338 1339 1341 1342 1343 13445 1345 1355 1355 1355 1355 135	O N CA CB C CD1 CE2 C O N CA CB CD1 CE2 C O N CA CB CD1 CO N CA CB CD O C O C O N CA CB CD O C O N CA CB CD O C O C O N CA CB CD O C O C O C O C O C O C O C O C O C	ASP A 182 ASP A 182 ASP A 182 THR A 183	999888899111218866545756666889564322101333333110.	74 75 76 77 76 77 76 77 77 77 77 77	.302 .302 .303 .303 .303 .303 .303 .303	$\begin{array}{c} 49.868 \\ 51.619 \\ 52.769 \\ 13.868 \\ 952.6613 \\ 13.961 \\ 13.$	1.00 63 1.00 78 1.00 79 1.00 81 1.00 65 1.00 67 1.00 68 1.00 69 1.00 83 1.00 84 1.00 72 1.00 75 1.00117 1.00117 1.00117 1.00117 1.0077 1.0077 1.0078 1.0078	20	87666876666666668766668768766668766688687666886876
ATOM ATOM	1383 1384	OD2 C	ASP A 182 ASP A 182	3. 1.	514 81 252 79	L.427 9.068	67.828 65.974	1.00117 1.00 77	.92 .55	8 6
ATOM	1386	N	THR A 183	0.	303 78	3.136	65.998	1.00102	.76	7
MOTA	1387	CA	THR A 183			3.488 9.018	66.117 64.790	1.00104 1.00 68		6 6
ATOM ATOM	1388 1389	CB OG1	THR A 183 THR A 183			9.308	64.796	1.00 69		8
ATOM	1390	CG2				7.982	63.670	1.00 68		6
ATOM	1391	C	THR A 183			7.285	66.519	1.00106		6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1393 1394 1393 13996 13999 1399 13999 13999 13999 13999 13999 13999 13999 13999 13999 13999 1399	ONCABGORENTIA	THR A 183 ARG A 184 ARG A 185 ALA A 186 GLY A 186 GLY A 186 GLY A 186 GLY A 187 GLN A 188 ARG A 188	-2.896 -1.575 -2.292 -1.407 -0.950 -1.814 -2.697 -3.961 -2.326 -2.728 -3.5743 -3.543 -3.3080 -2.262 -2.942 -0.943 -0.628 -0.943 -0.628 -0.943 -0.599 1.709 3.794 4.826 5.871 6.025 9.394 9	76.922 76.674 75.505 74.268 74.092 74.104 74.265 74.127 75.663 74.769 74.836 74.6806 74.034 72.6809 71.790 71.421 72.360 71.360 71.318 71.3	65.835 67.638 68.101 67.905 66.450 65.501 64.082 63.100 63.382 61.837 69.232 70.026 71.462 73.448 71.639 72.321 73.815 74.601 74.209 75.621 76.942 76.942 77.926 77.926 77.268 77.374 78.391 78	1.00106.41 1.00139.74 1.00141.90 1.00 97.52 1.00 98.60 1.00 99.55 1.00100.02 1.00 99.96 1.00 99.41 1.00100.11 1.00142.96 1.00143.20 1.00187.75 1.00188.97 1.00188.97 1.00113.15 1.00112.80 1.00112.80 1.00112.80 1.00115.21 1.00172.74 1.00174.52 1.00175.30 1.00175.30 1.00175.30 1.00175.31 1.00175.29 1.00175.30 1.00175.31 1.00175.29 1.00175.31	8766667677687666876687666876876876667677687668668
ATOM ATOM	1441	CA CB CG OD1	ASP A 190 ASP A 190	4.606 5.046	76.525 75.638	72.301 73.464	1.00 93.47 1.00145.73 1.00147.45 1.00148.52 1.00147.80	6 6 8 8
ATOM ATOM	1446 1447	C O	ASP A 190 ASP A 190	4.863 5.592	75.785 76.265	71.003 70.139	1.00 92.04 1.00 92.19	6 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1448 1445 1451 1453 1455 1455 1455 1455 1455	N CA CB CG CD1 CD2 C O N CA CB CG CD1 CD2 C O N CA CB CG CD CC	LEU A ASP A ASP A ASP A ASP A ASP A LYS A	191 191 191 191 191 191 191 192 192 192	4.253 4.351 3.047 2.224 0.873 2.981 4.661 4.416 5.198 5.495 6.811 7.926 8.248 4.328 4.108 3.627 4.108 3.627 4.108 3.627 4.108 3.775 2.039 1.084 0.278 -1.416 3.772 3.733 4.411 5.113 5.700 7.002 7.432 6.838 4.164 2.980 4.673 3.795 2.764	74.608 73.704 72.923 72.796 72.186 71.956 74.334 75.519 73.520 73.991 73.386 72.123 73.486 72.550 74.121 73.685 74.782 74.454 75.654 75.341 76.411 73.356 74.134 72.194 71.801 70.408 70.187 68.770 70.435 71.819 71.566 72.115 72.156 73.333	70.902 69.753 69.620 70.898 70.565 71.911 68.391 68.158 67.487 66.142 65.580 66.627 67.333 66.725 65.289 65.676 64.147 63.230 62.995 61.853 61.402 69.712 60.954 61.837 60.619 60.779 60.018 60.779 60.018 59.436 59.582 57.112 57.272	1.00 81.8 1.00 78.9 1.00 86.9 1.00 87.5 1.00 88.4 1.00 76.0 1.00 75.9 1.00 94.9 1.00 64.4 1.00 65.4 1.00 65.4 1.00 62.3 1.00 88.0 1.00 87.8 1.00 87.8 1.00 13.8 1.00 70.1 1.00 71.7 1.00 72.6 1.00 74.0 1.00 13.8 1.00 13.8 1.00 13.8 1.00 49.5 1.00 49.5 1.00 40.7 1.00 40.7 1.00 40.7 1.00 40.7 1.00 45.6 1.00 23.6 1.00 23.5 1.00 23.5 1.00 47.5	38705548022677987536957708677961681
			THR A	195	4.673	72.115	58.255	1.00 23.6	6 7
								1.00 47.5	
MOTA	1484	OG1	THR A THR A		2.457 3.307	73.916 74.398	55.999 58.183	1.00 49.3	
ATOM ATOM	1485 1486	CG2 C	THR A		4.558	72.275	55.797	1.00 21.6	
ATOM	1487	0	THR A		4.413	73.270	55.077	1.00 20.9	
MOTA	1488	Ň	LEU A		5.359	71.260	55.459	1.00 13.8	7 7
MOTA	1489	CA	LEU A		6.118	71.336	54.215	1.00 13.8	
MOTA	1490	CB	LEU A		7.198	70.268	54.118	1.00 13.8	
MOTA	1491	CG	LEU A		6.915	68.823	54.431	1.00 13.8	
MOTA	1492	CD1			8.258	68.110	54.425	1.00 13.8	
MOTA	1493	CD2	LEU A		6.243	68.678	55.787 53.046	1.00 13.8 1.00 13.8	
MOTA MOTA	$1494 \\ 1495$	C O	LEU A LEU A		5.203 4.114	71.269 70.728	53.130	1.00 13.8	
ATOM	1496	N	ARG A		5.661	71.821	51.941	1.00 47.2	
ATOM	1497	CA	ARG A		4.821	71.899	50.775	1.00 51.2	
ATOM	1498	СВ	ARG A	197	4.641	73.395	50.462	1.00 48.7	0 6
MOTA	1499	CG	ARG A		4.293	74.237	51.717	1.00 48.3	
MOTA	1500	CD	ARG A		3.537	75.533	51.379	1.00 47.1	
ATOM	1501	NE	ARG A		4.399	76.676 77.799	51.091 50.504	1.00 46.2 1.00 46.6	
MOTA	1502 1503	CZ NH1	ARG A ARG A		3.991 2.733	77.799	50.304	1.00 46.7	
MOTA	T302	MUT	A UMA	101	۷.۱۷۵	,,.,43	JU.14U	1.00 10.7	- '

ATOM 1519 CD2 TRP A 199	ATOM 1520 ATOM 1522 ATOM 1523 ATOM 1523 ATOM 1523 ATOM 1523 ATOM 1520 ATOM 1520 ATOM 1520 ATOM 1520 ATOM 1520 ATOM 1520 ATOM 1530 ATOM 1531 ATOM 1533 ATOM 1534 ATOM 154 ATOM 155	6 CA TRP A 199 7 CB TRP A 199 8 CG TRP A 199 9 CD2 TRP A 199 1 CE3 TRP A 199 1 CE3 TRP A 199 2 CD1 TRP A 199 3 NE1 TRP A 199 4 CZ2 TRP A 199 5 CZ3 TRP A 199 6 CH2 TRP A 199 6 CH2 TRP A 199 7 C TRP A 199 8 O TRP A 199 9 N THR A 200 0 CA THR A 200 1 CB THR A 200 1 CB THR A 200 1 CB THR A 200 2 OG1 THR A 200 1 CB THR A 201 1 OD2 ASP A 201	6.053 72 6.808 73 5.977 74 6.068 76 5.173 76 6.827 76 5.051 74 4.563 76 5.013 78 6.672 77 5.773 78 6.181 71 6.307 70 6.179 72 6.264 71 6.925 72 6.202 73 6.921 71 6.990 70 7.902 69 7.185 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 66 6.389 67 5.887 68 6.372 67 6.637 68 7.372 67 6.637 68 8.379 66 7.382 67 6.637 68 8.379 66 7.382 63 6.434 66 7.382 63 6.434 66 7.382 63 6.434 66 7.382 63 6.434 66 7.507 60	.891 44.927 .534 46.656 .881 43.971 .162 43.938 .236 45.293 .862 47.018 .700 46.339 .445 44.222 .227 44.299 .120 43.075 .507 41.746 .484 40.735 .720 40.724 .898 39.330 .163 41.638 .851 42.413 .368 40.661 .082 40.413 .988 41.076 .104 42.566 .124 43.072 .181 43.232 .772 38.922 .285 38.621 .570 37.247 .788 36.850 .341 36.283 .501 37.187 .625 36.882 .375 39.133 .427 38.145 .428 39.133 .427 38.145 .5	1.00 68.77 1.00 67.48 1.00 67.47 1.00 68.79 1.00 69.60 1.00 68.06 1.00 69.07 1.00 77.11 1.00 78.95 1.00 59.51 1.00 61.97 1.00108.21 1.00108.86 1.00109.30 1.00 61.64 1.00 61.28 1.00 26.09 1.00 27.98 1.00 68.36 1.00 71.72 1.00 73.07 1.00 73.40 1.00 29.41 1.00 97.53 1.00 99.53 1.00 99.53 1.00 99.89 1.00102.96 1.00101.80 1.00 86.92 1.00 84.76 1.00101.29 1.00101.42 1.00 55.39 1.00 23.40	876666666766688766886687668868868766876
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ATOM 1668 CD GLU A 219 16.680 52.676 52.011 1.00120.81 6 ATOM 1669 OE1 GLU A 219 15.515 52.611 51.550 1.00121.78 8 ATOM 1670 OE2 GLU A 219 17.685 52.770 51.273 1.00122.09 8 ATOM 1671 C GLU A 219 17.689 54.110 56.285 1.00 60.81 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1799 1800 1801 1803 1804 1805 1806 1807 1808 1810 1811 1812 1813 1814 1815 1821 1822 1823 1824 1825 1826 1827 1828 1836 1837 1836 1837	CB CO NCD CA CB CG CC CO NCA CB CGC CC	ALA B B B B B B B B B B B B B B B B B B	$\begin{smallmatrix} 8 & 8 & 9 & 9 & 9 & 9 & 9 & 9 & 9 & 9 &$	25.895 26.989 28.016 26.847 25.625 27.898 27.319 25.857 28.239 29.487 29.983 31.460 31.892 31.705 29.846 30.563 28.627 27.231 26.651 25.883 25.667 25.482 29.660 30.575 31.501 31.501 31.501 31.515 32.371 33.561 34.305 32.739 33.351 34.305 32.739 33.351 34.305 32.739 33.351	51.654 52.472 52.354 53.753 53.478 51.053 51.878 51.053 51.878 51.2948 50.2298 50.2298 51.948 50.2298 51.948 50.2398 52.403 53.330 54.657 53.429 53.200 53.250 54.250 55.550 56.838 56.838 56.838 57.550 57.50	54.521 55.439 55.439 55.439 55.439 55.439 55.460 56.778 56.460 56.778 56.460 57.780 59.346 60.599 60.599 60.178	1.00 56.84 1.00 56.66 1.00 56.49 1.00 53.70 1.00 64.50 1.00 51.92 1.00 63.49 1.00 51.30 1.00 51.69 1.00 51.69 1.00 50.52 1.00 58.34 1.00 58.83 1.00 58.45 1.00 50.72 1.00 51.63 1.00 53.80 1.00 52.66 1.00 77.05 1.00 77.97 1.00 78.45 1.00 79.06 1.00 79.32 1.00 53.83 1.00 53.83 1.00 53.83 1.00 53.83 1.00 79.40 1.00 79.32 1.00 66.78 1.00 79.32 1.00 66.78 1.00 67.68 1.00114.71 1.00115.14 1.00115.46 1.00 68.21 1.00 68.21 1.00 68.13 1.00 70.17 1.00 71.26 1.00 41.04 1.00 73.13 1.00 74.07 1.00 89.91 1.00 91.34 1.00149.30 1.00149.30 1.00151.79 1.00148.89 1.00109.63 1.00158.82 1.00109.63 1.00158.82 1.00110.48 1.00111.01	668766668766666666666668766687668766876
				15	32.739	54.657 53.804 55.959	75.791	1.00110.48	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1840 1841 1842 1843 1844 1845 1846 1847 1848 1845 1855 1855 1855 1855 1855 1855		GLN B B B B B B B B B B B B B B B B B B B	21 21 21 21 22 22 22 22 22 22 22 22 22 2	33.877 34.756 36.183 36.836 36.679 33.879 32.237 31.684 30.395 30.413 29.371 30.651 28.871 27.779 29.548 29.669 30.981 32.128 31.221 32.457 33.029 30.449 31.104 30.464 31.275 32.761 33.590 34.959 35.718 32.997 33.740 35.825 31.106 32.029 29.669 30.045 29.182 31.865 33.386 34.110 35.596 36.274 36.086	57.996 58.676 58.158 58.104 57.783 56.022 56.382 55.232 54.764 55.477 55.356 58.1951 57.356 58.714 58.790 58.743 58.727 61.256 62.328 62.262 61.183 59.727 61.056 62.328 62.262 61.183 59.743 58.759 61.256 62.328 62.262 61.183 59.743 58.759 61.256 62.328 62.328 63.338 63.338	76.949 77.985 77.984 76.941 79.159 78.414 79.159 78.426 79.682 80.037 79.332 81.128 81.561 83.288 83.153 80.702 80.836 79.836 79.389 71.705 76.998 75.7389 76.146 77.73.827 72.981 71.966 74.849 74.654 73.827 72.981 71.966 74.849 74.654 73.339 71.918 71.058 71.676 70.356 70.456 70.356 70.456 70.368	1.00 90.84 1.00 92.61 1.00 94.30 1.00 96.12 1.00 95.03 1.00 88.26 1.00 88.50 1.00144.12 1.00143.78 1.00144.77 1.00104.50 1.00103.73 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00102.50 1.00102.50 1.00102.98 1.00 46.05 1.00 44.55 1.00145.87 1.00145.87 1.00145.87 1.00145.87 1.00146.38 1.00146.38 1.00146.38 1.00146.38 1.00146.38 1.00146.38 1.00145.49 1.00130.78 1.00130.78 1.00130.78 1.00130.78 1.00130.78 1.00130.78 1.00130.78 1.00130.78 1.00130.78 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95 1.00130.95	6668768766876668868766667676876666666868766887666886
ATOM ATOM	1889 1890	CD OE3	GLU B L GLU B	22 22 22 22 22 22 22 23	35.596 36.274	60.408 59.369	69.716 69.576	1.00 82.92 1.00 82.42 1.00 84.93	6 8 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1896 1897 1898 1900 1901 1903 1904 1906 1907 1908 1909 1911 1913 1914 1915 1917 1918 1921 1922 1922 1922 1922 1923 1933 1933	CB CG112 CE2 CZ CONCB CGC CCC CONCB CGC CCC CONCB CGC CCC CONCB CGC CCC CONCB CCC CCC CCC CONCB CCC CCC CCC CONCB CCC CCC CCC CCC CCC CCC CCC CCC CCC	LEU B LEU B GLU B	28 29 29 29 29 29 29	28.607 28.164 26.861 29.065 26.458 28.672 27.368 30.538 30.534 30.529 32.988 33.248 30.3974 29.253 28.698 27.172 26.568 29.476 29.866 30.705 32.037 33.175 34.422 34.388 35.428 30.785 31.531 30.399 30.825 28.822 27.965 27.174 26.741 26.741 26.741 26.741 26.741 26.755 25.037 26.262 27.232 28.181 26.255 25.014 25.037	60.294 60.038 60.724 60.131 60.137 59.659	67.541 68.920 69.816 70.611 71.098 71.497 65.988 65.082 63.726 63.726 63.62.381 60.892 60.	1.00 54.52 1.00 53.70 1.00 54.29 1.00 52.65 1.00 55.28 1.00 53.37 1.00 54.11 1.00 44.10 1.00 44.77 1.00 44.68 1.00 43.27 1.00 15.18 1.00 15.68 1.00 44.28 1.00 60.79 1.00 60.09 1.00 15.01 1.00 13.87 1.00 13.87 1.00 61.13 1.00 60.97 1.00 60.97 1.00 60.97 1.00 13.87 1.00 13.87 1.00 61.13 1.00 60.97 1.00 90.37 1.00 90.37 1.00 13.87 1.00 13.87 1.00 13.87 1.00 56.95 1.00 13.87 1.00 56.95 1.00 13.87 1.00 58.52 1.00 13.87 1.00 58.52 1.00 13.87 1.00 58.52 1.00 13.87 1.00 59.53 1.00 13.87 1.00 58.52 1.00 13.87 1.00 59.53 1.00 13.87 1.00 59.53 1.00 13.87 1.00 58.52 1.00 13.87 1.00 58.52 1.00 13.87 1.00 59.53 1.00 13.87 1.00 58.52 1.00 13.87 1.00 59.53 1.00 13.87 1.00 58.52 1.00 13.87 1.00 39.68 1.00 21.14 1.00 39.15 1.00 39.68 1.00 29.83 1.00 29.83 1.00 29.83	666666668766668766666876666886876666876666876666886
MOTA	1951	С	GLU B	29	26.296	61.769	50.530	1.00 29.83	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	1953 1953 1953 1955 1955 1955 1955 1955	ON CABCCONE CH12 ON CABCCONE CON CABCCON CABCCON CABCCON CABCCON CABCCCON CABCCON CABCCCON CABCCON CABCCCON CABCCON CABCC	GLU B B B B B B B B B B B B B B B B B B B	9000000000111112222222222333333333333333	25.524 27.183 27.313 28.083 27.387 26.693 26.707 27.571 25.863 25.218 25.218 25.218 25.218 22.256 24.120 23.403 23.260 22.180 20.874 22.451 19.853 21.431 24.156 23.590 25.439 26.199 25.458 25.449 24.820 24.820 24.820 24.820 25.458 25.449 24.820 25.458 25.458 26.199 26.323 20.323 20.379 19.24 21.470 21.763 21.763 21.763	62.548 63.749 64.395 64.396 66.724 66.396 66.724 67.870 68.0965 68.0965 64.5967 64.5961 61.5201 61.379 61.3	51.405 49.915 50.295 49.228 47.389 46.275 45.602 44.597 50.523 49.629 51.8101 52.8996 51.8101 52.8996 53.8997 54.506 53.8997 54.506 53.8997 54.506 53.8997 54.506 53.8997 54.506 53.8997 54.506 57.349 57.349 57.349 57.389 57.3	1.00 28.53 1.00 47.67 1.00 48.20 1.00 85.66 1.00 89.54 1.00 95.87 1.00 96.56 1.00 96.67 1.00 45.28 1.00 44.63 1.00 66.30 1.00 65.00 1.00 65.26 1.00 55.81 1.00 24.56 1.00 21.18 1.00 20.75 1.00 19.17 1.00 19.26 1.00 17.56 1.00 19.17 1.00 19.26 1.00 33.58 1.00 33.58 1.00 33.68 1.00 55.18 1.00 55.18 1.00 55.33 1.00 53.79 1.00 53.45 1.00 33.83 1.00 33.68 1.00 53.79 1.00 53.45 1.00 53.28 1.00 53.53 1.00 53.53 1.00 47.42 1.00 47.59 1.00 47.14 1.00 47.59 1.00 53.16 1.00 20.76 1.00 46.64 1.00 46.64 1.00 46.64	8766667677687668766666666668766876666876687668668
ATOM ATOM ATOM ATOM	1998 1999	CA CB	LEU B LEU B LEU B	36 36	21.170 21.763	62.992 61.602	60.092 59.919	1.00 20.76 1.00 46.64	6 6
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2002 2003 2004 2005 2006 2007	CD2 C O N CA C	LEU B LEU B GLY B GLY B GLY B	36 36 37 37 37	21.738 20.991 23.064 23.743 22.994	63.641 64.098 63.680 64.256 65.360	61.332 62.189 61.413 62.558 63.274	1.00 21.80 1.00 21.82 1.00 70.68 1.00 71.90 1.00 72.46	6 8 7 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2064 2065 2066 2067 2068 2069 2070 2071 2073 2074 2075 2077 2078 2080 2081 2082 2083 2084 2085 2086 2087 2088 2088 2089 2099 2099 2099 2099 2099	CB CG CD1 CD2 C O N CA CB CCD1 CD2 C O N CA CB OG C O N CA CB CC	LEU B B B B B B B B B B B B B B B B B B B	4444444555555555666666777777888888888888	21.03 21.71 20.92 21.82 19.59 19.44 19.76 19.80 20.22 21.71 21.94 22.54 18.48 18.44 17.41 16.07 15.20 15.74 16.11 14.14 13.36 12.68 14.14 14.85 14.02 14.66 16.19	1 63.320 7 62.307 62.931 3 65.742 8 65.327 8 67.030 9 412 8 69.572 7 70.993 8 69.307 8 69.307 8 69.307 8 69.307 8 69.307 6 68.302 7 7 68.848 0 67.867 6 68.000 6 68.000 6 66.631 6 66.631 6 65.360 6 65.370 6 63.499 6 63.780 6 62.615 6 62.619 6 61.854 6 61.528 6 62.631 6 62.631	72.280 74.558 73.768 75.835 76.439 76.259 77.420 74.915 74.848 77.930	1.00 38.30 1.00 39.26 1.00 39.28 1.00 39.06 1.00 46.18 1.00 45.77 1.00 43.02 1.00 59.53 1.00 59.66 1.00 59.91 1.00 59.49 1.00 43.51 1.00 42.99 1.00139.02 1.00140.04 1.00 52.11 1.00 52.48 1.00141.18 1.00141.89 1.00 62.93 1.00 62.93 1.00 62.15 1.00 33.15 1.00 37.39 1.00 16.95 1.00 17.05 1.00 14.85 1.00 39.08	66666876666687668687668687666668
ATOM ATOM	2097 2098	O N	ILE B PRO B	48 49	14.72 13.66			1.00 39.18 1.00 39.29	8 7
ATOM	2099	CD	PRO B	49	13.42	23 60.297		1.00 99.40	6
MOTA	2100	CA	PRO B	49	13.31			1.00 40.69	6
ATOM	2101	CB	PRO B	49	12.80 13.53			1.00 99.95 1.00100.22	6 6
ATOM ATOM	2102 2103	CG C	PRO B	49 49	14.46			1.00 41.75	6
ATOM	2103	0	PRO B	49	15.62			1.00 41.14	8
ATOM	2105	N	GLY B	50	14.13		81.956	1.00 70.15	7
MOTA	2106	CA	GLY B	50	15.15			1.00 71.83	6
ATOM	2107	С	GLY B	50	14.86			1.00 74.05	6
ATOM	2108	0	GLY B	50	14.01			1.00 74.59 1.00119.01	8 7
ATOM	2109 2110	N CA	THR B	51 51	15.61 15.52			1.00113.01	6
ATOM ATOM	2111	CB	THR B	51	16.14			1.00 46.81	6
MOTA	2112	OG1	THR B	51	16.61			1.00 46.78	8
MOTA	2113	CG2		51	17.31	L9 61.690		1.00 46.66	6
ATOM	2114	С	THR B	51	16.33			1.00119.45	6
MOTA	2115	0	THR B	51	17.51			1.00119.94 1.00103.75	8 7
MOTA	2116	N	ALA B ALA B	52 52	15.70 16.42			1.00103.75	6
ATOM ATOM	2117 2118	CA CB	ALA B	52 52	16.42			1.00152.39	6
ATOM	2119	CD	ALA B	52	15.77			1.00102.49	6
		-	-						

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2137 2138 2140 2141 2142 2144 2144 2144 2144 2144	O N CA CB CG1 CG2 C O N CA CB OG CO N CA CB CG1 CG2 C O N CA CB CC C C C C C C C C C C C C C C C	ALA B VAL B THR	55555555555555555555555555555555555555	14.593 16.556 16.071 17.251 16.826 17.734 15.378 15.778 14.336 13.668 12.606 11.751 11.797 13.053 12.680 12.968 12.390 10.867 10.243 12.980 12.898 13.567 14.199 15.710 16.499 15.710 16.499 16.228 13.607 12.975 13.835 13.374 12.043 11.673 10.822 10.521 12.204 11.911 11.075 10.812 14.439 14.880	68.104 68.038 68.827 69.332 70.536 68.211 70.011 70.444 70.534 71.654 71.155 72.242 70.029 72.667 73.758 72.324 73.228 73.069 74.033 72.906 71.767 73.900 73.652 74.006 73.652 74.006 73.753 74.376 75.413 73.77 75.413 73.77 75.101 75.326 74.681 74.681 74.108 72.976	88.815 89.930 91.054 91.935 92.852 90.404 89.323 91.031 90.412 89.038 90.3645 92.645 93.645 93.645 94.471 95.688 96.935 97.881 95.537 98.185 99.360 100.621 101.0515 103.210 104.553 103.204 104.539 105.206 106.533 101.870	1.00102.50 1.00 62.89 1.00 61.42 1.00 38.24 1.00 37.03 1.00 37.95 1.00 62.14 1.00 61.57 1.00 59.37 1.00 61.52 1.00 86.50 1.00 87.50 1.00 88.32 1.00 62.88 1.00 62.88 1.00 62.88 1.00 68.07 1.00 68.95 1.00 68.95 1.00 68.95 1.00 68.93 1.00 69.81 1.00 70.50 1.00 39.67 1.00 37.61 1.00 37.61 1.00 37.61 1.00 37.61 1.00 42.16 1.00 42.16 1.00 41.71 1.00 90.24 1.00 91.74 1.00 94.82 1.00 96.56 1.00 97.93 1.00 99.32 1.00 99.32 1.00 99.31 1.00 99.31 1.00 99.32	87666687668668766887666687666666868
ATOM ATOM	2153 2154	CE1 CD2	TYR B	57	12.204	75.101	103.204	1.00 96.87	6
ATOM ATOM	2156 2157	CZ OH	TYR B TYR B	57 57	11.075 10.812	74.463 74.681	106.533	1.00 99.95	8
MOTA	2159	0	TYR B	57	14.880	72.976	101.870	1.00 93.22	8
MOTA ATOM	2160 2161	N CA	ILE B	58 58	14.853 15.847	75.167 75.056	103.418	1.00150.74	6
MOTA MOTA	2162 2163	CB CG2	ILE B	58 58	17.147 18.313	75.777 75.163	103.785	1.00 89.36 1.00 89.02	6
${ t ATOM}$	2164 2165	CG1 CD1	ILE B	58 58	17.395 18.567	75.661 76.493	101.057	1.00 90.55 1.00 92.33	6
ATOM ATOM	2166 2167	C O	ILE B	58 58	15.264 15.192	75.764 76.991		1.00153.96 1.00154.94	6 8
ATOM ATOM	2168 2169	N CA	GLU B GLU B	59 59	14.834 14.267	75.011 75.642		1.00 92.95 1.00 93.68	7 6
ATOM	2170	CB	GLU B	59 59	14.343 14.156	74.701 75.393	108.025 109.381	1.00208.87 1.00208.87	6 6
MOTA MOTA	2171 2172	CG CD	GLU B GLU B	59	12.790	76.045	109.550	1.00208.87	6
MOTA MOTA	$2173 \\ 2174$	OE1 OE2	GLU B	59 59	12.400 12.107	76.865 75.743		1.00208.87 1.00208.87	8 8
MOTA	2175	C	GLU B	59	15.024	76.932		1.00 93.98	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2199 2191 2192 2193 2194 2195 2197 2198 2199 22001 2201 2202 2203 2204 2205 2211 2212 2213 2214 2215 2216 2217 2218 2219 2211 2212 2211 2212 2213 2214 2215 2216 2217 2218 2219 2219 2219 2219 2219 2219 2219	N CA CB CG1 CG2 C O N CA CB CGD1 CD2 C O N CA CB CD1 CD2 C O N CA CB CD1 CD2 C O N CA CB CG CD1 CD2 C C O N CA CB CG CD1 CE1	GLUPASPASPASSPASSPASSPASSPASSPASSPASSPASSP	9000000011111112222222333333333334444444444	16.247 14.277 14.792 16.301 16.636 15.907 17.631 14.491 13.353 15.503 15.327 16.673 16.416 17.452 14.586 14.997 13.501 12.609 11.786 10.711 9.670 13.343 13.969 13.240 13.831 13.728 12.415 12.118 11.207 10.224 10.750 15.876 15.811 17.157 17.241 18.573 18.695 17.226 16.702 16.365 15.343	77.964 79.267 78.550 78.758 77.793 80.426 80.887 80.873 82.0667 83.941 82.755 80.944 81.755 83.476 83.476 83.375 83.476 83.375 83.471 84.933 85.571 84.933 85.571 86.675 85.050 86.801 82.984 82.494 82.657 82.319 81.7523 80.3537 83.4531 84.8938 82.494 83.128 82.657 82.319 81.7423 82.657 83.481 82.657 83.481 82.657 83.481 82.657 83.150 84.881 85.886	106.976 107.521 107.882 108.164 109.453 110.449 109.476 106.915 106.839 106.175 106.839 106.175 105.258 104.101 106.1945 103.807 102.600 103.811 103.688 103.903 101.055 100.521 99.794 98.730 99.794 98.675 99.794 98.3349 99.995 97.525 96.036 95.598 94.101 93.349 97.525 96.3665 97.957 97.399 98.3655 97.957 97.573 98.824 96.480 98.982	1.00 94.44 1.00148.93 1.00148.06 1.00106.25 1.00107.45 1.00105.57 1.00148.12 1.00148.37 1.00 35.04 1.00 34.64 1.00 65.20 1.00 65.20 1.00 35.20 1.00 34.12 1.00 82.75 1.00 84.93 1.00182.79 1.00183.84 1.00183.75 1.00 85.94 1.00 86.60 1.00 90.72 1.00 91.10 1.00157.38 1.00158.97 1.00160.02 1.00160.35 1.00160.12 1.00 91.43 1.00 91.89 1.00160.35 1.00160.12 1.00 91.43 1.00 91.89 1.00208.87	876668868766668766666876666767687666688687666666
MOTA MOTA MOTA	2222 2223 2224	CG CD1 CD2	PHE B PHE B PHE B	65 65 65	17.226 16.702 16.365	87.531 87.847 87.485	97.573 98.824 96.480 98.982	1.00168.10 1.00168.98 1.00169.74 1.00170.31	6 6 6
ATOM ATOM ATOM ATOM ATOM	2226 2227 2228 2229 2230	CE2 CZ C O	PHE B PHE B PHE B PHE B SER B	65 65 65 65	15.004 14.493 19.436 19.001 20.197	87.748 88.063 85.991 86.928 85.027		1.00170.48 1.00170.73 1.00 91.95 1.00 91.00 1.00 48.43	6 6 8 7
ATOM	2231	CA	SER B	66	20.549	85.003		1.00 46.27	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2244 2245 2246 2247 2250 2251 2252 2253 2254 2255	CB OG C O N CA CB OG1 CG2 C O N CA CB CG1 CD1 C O N CD CA CB CCD1 C C C C C C C C C C C C C C C C C	SER B SER B SER B THR B THR B THR B THR B THR B THR B ILE B	6666677777788888889999999	19.443 19.889 21.840 22.649 21.996 23.150 24.293 24.952 25.284 22.701 22.184 22.875 22.499 21.843 21.663 20.469 20.500 23.764 24.690 23.824 22.772 24.964 24.443 23.526	84.347 84.077 84.288 83.984 84.016 83.345 84.344 84.609 83.809 82.780 83.517 81.475 80.829 79.447 79.618 80.251 80.651 79.955 81.301 82.186 81.245 81.980 82.995	102.204 103.529 101.707 100.838 102.993 103.537 103.771 102.528 104.790 104.870 105.708 105.056 106.308 106.069 107.390 105.413 104.039 107.135 106.716 108.312 108.846 109.234 110.465 109.875	1.00 57.99 1.00 58.99 1.00 45.72 1.00 45.98 1.00 94.64 1.00 94.16 1.00 57.09 1.00 58.32 1.00 56.21 1.00 95.18 1.00 95.70 1.00 83.60 1.00 82.48 1.00114.37 1.00114.07 1.00115.44 1.00 82.86 1.00 82.59 1.00 80.58 1.00122.52 1.00 79.17 1.00122.46 1.00122.69	68687668668766666876666
ATOM	2256	C	PRO B	69	25.420	79.822	109.557	1.00 79.52	6
ATOM	2257	0	PRO B	69	24.619	78.884	109.563	1.00 79.86	8
ATOM	2258	N	GLY B	70	26.713	79.670	109.830	1.00 87.91	7
ATOM	2259	CA	GLY B	70	27.250	78.359	110.143	1.00 86.45	6
ATOM	2260	C	GLY B	70	27.129	77.449	108.943	1.00 86.68	6
ATOM	2261	O	GLY B	70	26.694	76.305	109.069	1.00 86.14	8
ATOM	2262	N	VAL B	71	27.505	77.985	107.780	1.00139.89	7
ATOM	2263	CA	VAL B	71	27.471	77.287	106.491	1.00139.35	6
ATOM	2264	CB	VAL B	71	26.024	77.202	105.922	1.00 72.29	6
ATOM	2265	CG1	VAL B	71	26.024	76.399	104.645	1.00 73.35	6
ATOM	2266	CG2	VAL B	71	25.089	76.552	106.922	1.00 71.63	6
ATOM	2267	C	VAL B	71	28.350	78.065	105.491	1.00139.62	6
ATOM	2268	O	VAL B	71	27.965	79.138	105.023	1.00139.95	8
ATOM	2269	N	LYS B	72	29.518	77.510	105.167	1.00 95.33	7
ATOM	2270	CA	LYS B	72	30.485	78.134	104.259	1.00 94.09	6
ATOM	2271	CB	LYS B	72	31.643	77.172	103.957	1.00 76.78	6
ATOM	2272	CG	LYS B	72	32.731	77.814	103.081	1.00 77.29	6
ATOM ATOM ATOM	2273 2274 2275	CD CE NZ	LYS B LYS B LYS B	72 72 72	33.940 34.947 36.160		102.803	1.00 77.12 1.00 75.39 1.00 73.12	6 6 7
ATOM	2276	C	LYS B	72	29.966	78.685	102.934	1.00 93.33	6
ATOM	2277	O	LYS B	72	30.579	79.586	102.358	1.00 93.92	8
ATOM	2278	N	GLU B	73	28.858	78.151	102.437	1.00 48.05	7
ATOM	2279	CA	GLU B	73	28.303	78.619	101.171	1.00 46.06	6
ATOM	2280	CB	GLU B	73	27.736	77.444	100.379	1.00 61.85	6
ATOM	2281	CG	GLU B	73	28.775	76.626	99.653	1.00 62.12	6
ATOM ATOM ATOM	2282 2283 2284	CD OE1 OE2	GLU B GLU B	73 73 73	29.762 30.707 29.602	75.946 75.331 76.016	100.576	1.00 61.73 1.00 60.25 1.00 62.43	6 8 8
ATOM	2285	C	GLU B	73	27.215	79.662	101.360	1.00 45.75	6
ATOM	2286	O	GLU B	73	27.114	80.294		1.00 46.03	8
ATOM	2287	N	ASP B	74	26.413	79.843		1.00 48.39	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2288 2290 2291 2293 2293 2294 2295 2297 2299 2300 2300 2300 2300 2310 2311 2313 2314 2315 2316 2317 2317 2318 2317 2318 2318 2318 2318 2318 2318 2318 2318	OD2 C O N CA CB CG1 CG2 C O N CA CBCG1 CG2 C O N CA CBCG2 C O N CA CBCG2 C O N CA CBCG1 C C C C C C C C C C C C C C C C C C	ASP B B B B B B B B B B B B B B B B B B B	74444477777777777777777777777777777777	25.303 25.754 26.104 27.091 25.393 24.294 24.651 23.042 21.953 20.794 19.467 20.724 22.367 22.440 22.650 23.573 23.573 24.036 23.783 25.171 26.194 27.321 28.508 29.192 28.482 30.439 25.564 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.160 24.404 23.237 23.360 24.585 24.585 24.585 24.585 24.585 24.585	80.783 82.199 82.330 81.708 83.062 80.277 79.984 80.169 79.695 80.729 80.352 78.179 80.362 81.398 81.118 82.490 78.993 77.695 77.995 77.788 77.695 77.788 75.224 75.224 75.295 74.123 75.295 74.123 75.295 77.444 77.526 77.478 77.478 77.478 77.478 77.478 77.478 77.959 78.179	92.878 93.108 91.907 91.597 91.502 90.914	1.00 48.20 1.00100.71 1.00103.97 1.00106.12 1.00104.82 1.00 47.37 1.00 47.73 1.00 64.39 1.00 63.43 1.00 47.57 1.00 48.16 1.00 63.96 1.00 64.80 1.00 65.51 1.00 56.51 1.00 56.51 1.00 56.80 1.00 67.25 1.00 57.25 1.00 58.30 1.00 67.25 1.00 58.30 1.00 69.87 1.00 76.53 1.00 76.53 1.00 78.38 1.00 78.38 1.00 78.38 1.00 36.73 1.00 55.17 1.00 56.85 1.00 56.85 1.00 56.37 1.00 57.67 1.00 57.67 1.00 69.77 1.00 69.77 1.00 69.39 1.00 70.43 1.00 70.57 1.00 67.00 1.00 67.00 1.00 67.00 1.00 67.00 1.00 67.59 1.00 24.04 1.00 25.12 1.00 21.84	66688687666687666687666688687666668766668766666
MOTA MOTA	2336 2337	CB CG	LEU B LEU B LEU B	80 80	24.942 24.585	76.467 77.959	91.597 91.502 90.914 90.643 92.079 91.203 93.202	1.00 26.59 1.00 24.04 1.00 25.12	6 6

ATOM	2344	СВ	ASN B	81	25.758	72.241	94.927	1.00 53.32	6
ATOM	2345	CG	ASN B	81	27.021	72.955	95.280	1.00 55.49	6
ATOM	2346		ASN B	81	28.101	72.609	94.805	1.00 55.56	8
ATOM	2347	ND2	ASN B	81	26.902	73.964	96.123	1.00 57.98	7
ATOM	2348	C	ASN B	81	24.210	71.474	93.185	1.00 32.80	6
ATOM	2349	0	ASN B	81	24.279	70.598	92.322	1.00 32.36	8 7
ATOM	2350	N	LEU B	82	23.142	71.656	93.943	1.00 63.41 1.00 63.31	6
ATOM	2351	CA	LEU B	82	21.959	70.843	93.784 94.373	1.00 63.31	6
MOTA	2352	CB	LEU B	82	20.752 19.575	71.580 70.783	94.373	1.00 53.67	6
MOTA	2353	CG	LEU B LEU B	82 82	20.075	69.750	95.942	1.00 54.27	6
ATOM	2354 2355	CD1 CD2	LEU B LEU B	82 82	18.611	71.744	95.612	1.00 54.27	6
ATOM ATOM	2356	CDZ	LEU B	82	21.759	70.585	92.293	1.00 63.65	6
ATOM	2357	Ö	LEU B	82	21.733	69.447	91.883	1.00 63.99	8
ATOM	2358	N	LYS B	83	21.827	71.642	91.484	1.00 50.46	7
MOTA	2359	CA	LYS B	83	21.639	71.525	90.036	1.00 50.43	6
ATOM	2360	CB	LYS B	83	21.912	72.862	89.345	1.00 61.05	6
ATOM	2361	CG	LYS B	83	20.787	73.880	89.423	1.00 61.79	6
ATOM	2362	CD	LYS B	83	21.137	75.141	88.614	1.00 63.49	6
ATOM	2363	CE	LYS B	83	21.394	74.820	87.123	1.00 65.14	6
ATOM	2364	NZ	LYS B	83	21.635	76.001	86.224	1.00 64.59	7
ATOM	2365	C	LYS B	83	22.508	70.445	89.394	1.00 50.69	6
ATOM	2366	0	LYS B	83	22.093	69.813	88.426	1.00 50.40	8
MOTA	2367	N	GLU B	84	23.710	70.238	89.922	1.00 72.59	7
ATOM	2368	CA	GLU B	84	24.602	69.220	89.384	1.00 73.33	6
MOTA	2369	CB	GLU B	84	26.060	69.599	89.630	1.00 68.79	6
ATOM	2370	CG	GLU B	84	26.556	70.775	88.821	1.00 68.46	6
ATOM	2371	CD	GLU B	84	28.062	70.971	88.946	1.00 67.59 1.00 66.17	б 8
ATOM	2372	OE1	GLU B	84 84	28.553 28.754	71.199 70.894	90.078 87.904	1.00 66.71	8
ATOM	2373 2374	OE2 C	GLU B GLU B	84	24.336	67.853	90.009	1.00 74.24	6
MOTA MOTA	2374	0	GLU B	84	25.118	66.920	89.839	1.00 75.23	8
MOTA	2376	N	LEU B	85	23.236	67.744	90.744	1.00 56.01	7
MOTA	2377	CA	LEU B	85	22.853	66.495	91.398	1.00 55.89	6
ATOM	2378	CB	LEU B	85	21.736	66.768	92.400	1.00 82.41	6
ATOM	2379	CG	LEU B	85	21.185	65.612	93.226	1.00 83.62	6
MOTA	2380	CD1	LEU B	85	22.252	65.113	94.193	1.00 84.58	6
ATOM	2381	CD2	LEU B	85	19.956	66.085	93.988	1.00 83.69	6
ATOM	2382	C	LEU B	85	22.353	65.519	90.346	1.00 56.47	6
MOTA	2383	Ο	LEU B	85	21.671	65.932	89.412	1.00 56.46	8
MOTA	2384	N	VAL B	86	22.686	64.235	90.482	1.00 58.30	7
ATOM	2385	CA	VAL B	86	22.227	63.229	89.516	1.00 58.92 1.00 28.71	6 6
ATOM	2386	CB CC1	VAL B	86 86	23.416 22.940	62.561 62.023	88.752 87.403	1.00 28.71	6
ATOM	2387	CG1 CG2	VAL B	86 86	24.543	63.547	88.545	1.00 26.79	6
ATOM ATOM	2388 2389	CGZ	VAL B	86	21.422	62.141	90.237	1.00 60.35	6
ATOM	2399	0	VAL B	86	21.984	61.253	90.878	1.00 59.96	8
ATOM	2391	N	VAL B	87	20.101	62.229	90.135	1.00 51.71	7
ATOM	2392	CA	VAL B	87	19.212	61.267	90.775	1.00 53.76	6
MOTA	2393	CB	VAL B	87	17.954	61.954	91.369	1.00 59.83	6
ATOM	2394	CG1	VAL B	87	17.010	60.920	91.937	1.00 60.81	6
MOTA	2395	CG2	VAL B	87	18.352	62.914	92.461	1.00 60.06	6
MOTA	2396	C	VAL B	87	18.753	60.286	89.722	1.00 56.80	6
ATOM	2397	0	VAL B	87	18.842	60.573	88.532	1.00 56.99	8
MOTA	2398	N	ARG B	88	18.263	59.133	90.167	1.00109.23	7 6
ATOM	2399	CA	ARG B	88	17.756	58.084	89.282	1.00111.52	Ö

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 24578901234567890123457678901234567890123447773456789012344888901234499999345678901234499999999999999999999999999999999999$	CB CGCD2 CE2 CD1 NE1 CZ2 CC3 CH2 C O N CA CB CCD NE CZ NH1 C O N CA CB OG1 CG2 C O N CA CB OG1 CG2 C O N CA CB CG CC C O N CA CB CCD CC	TRP P P B B B B B B B B B B B B B B B B B	999999999999999999999999999999999999999	9.763 10.568 11.423 12.024 11.740 10.676 11.550 12.927 12.637 13.220 8.086 7.625 8.458 8.374 7.074 5.833 4.759 3.626 2.569 2.494 1.586 8.405 7.460 9.641 10.349 11.738 9.727 10.340 10.643 10.602 11.256 10.249 9.224 10.957 12.391 12.416 13.321 14.466 15.746 15.672 16.945	57.888 58.559 59.692 59.963 60.505 59.036 61.549 61.748 61.748 62.7356 62.748 62.748 62.7356 62.0887 62.356 62.356 62.356 62.356 62.356 63.5175 63.5476 64.676 64.675 6	90.163 91.201 92.262 89.922 93.153 90.153 90.153 90.153 90.153 91.356 88.922 91.100 90.395 91.201 90.467 91.395 92.523 93.2583 93	1.00167.50 1.00170.85 1.00171.98 1.00173.23 1.00171.41 1.00172.08 1.00173.59 1.00174.27 1.00172.06 1.00173.80 1.00168.12 1.00108.70 1.00152.49 1.00153.87 1.00154.72 1.00156.37 1.00157.56 1.00158.22 1.00158.25 1.00103.14 1.00103.69 1.00 76.25 1.00 73.20 1.00 62.79 1.00 64.35 1.00 73.20 1.00 62.79 1.00 64.35 1.00 73.64 1.00 54.45 1.00 57.05 1.00 57.05 1.00 57.05 1.00 57.05 1.00 57.05 1.00 57.27 1.00 53.16 1.00 57.27 1.00 53.16 1.00 57.27 1.00 53.16 1.00 57.27 1.00 53.16 1.00 57.27 1.00 53.16 1.00 57.27 1.00 53.16 1.00 57.27 1.00 53.16 1.00 57.27 1.00 49.32 1.00128.47 1.00129.98	666666766687666676776876686687668668766666
ATOM	2493 2494	N CA	LEU B LEU B	98 98	14.466	64.560	99.290	1.00 48.21	6
							96.312		
MOTA	2497	CD1	LEU B	98	15.415	62.658	97.030	1.00129.19	6
ATOM	2499	C	LEU B	98	14.526	65.543	100.440	1.00 48.83	6
ATOM	2500	Ō	LEU B	98	14.054	66.669	100.322	1.00 47.56	8
MOTA	2501	\mathbf{N}	ILE B	99	15.107	65.115	101.551	1.00 81.01	7
MOTA	2502	CA	ILE B	99	15.238	65.973	102.718	1.00 82.32	6
ATOM	2503	CB	ILE B	99	14.221	65.573	103.785	1.00105.79 1.00105.81	6
ATOM	2504	CG2	ILE B	99	14.372	66.445 65.723	105.007 103.205	1.00105.81	6 6
ATOM	2505 2506	CG1 CD1	ILE B	99 99	12.813 11.713	65.723	103.205 104.160	1.00105.76	6
MOTA MOTA	2506	CDI	ILE B		16.669	65.842	103.232	1.00 85.52	6
ATOM	2508	Ö	ILE B		17.411	64.993	102.749	1.00 86.30	8
ATOM	2509	N	LEU B		17.076	66.659	104.199	1.00129.42	7
MOTA	2510	CA	LEU B	100	18.455	66.571		1.00130.47	6
MOTA	2511	СВ	LEU B	100	19.299	67.559	103.854	1.00 82.55	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2513 2513 2513 2513 2513 2513 2513 2513		GLU B 10' GLU B 10' VAL B 10'	32.227 31.690 31.717 31.027 31.550 33.040 33.571 35.043 31.080 30.327 31.398 30.868 31.787 33.188 34.072 33.693 35.153 29.460 29.110 28.640 27.296 26.192 24.827 26.154 27.309	65.792 103 68.169 102 66.769 106 67.342 106 66.285 106 66.373 108 66.989 108 66.933 108 68.064 108 68.691 108 68.691 108 68.656 110 68.367 110 68.367 110 68.287 111 70.426 111 70.426 111 70.570 111 70.570 111 70.769 112 70.769 112 70.769 113 70.448 108 70.955 108 68.219 108 66.288 11 65.977 10 66.988 108 66.288 11 65.977 10 66.988 108 66.288 11 65.977 10 66.988 108 66.288 11 65.977 10 66.988 108 66.288 11 65.977 10 66.988 108 66.288 11 65.977 10 66.988 108 67.933 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 67.393 108 68.544 108 69.646 108 69.646 108 69.646 108 69.646 108	2.6759 3.6159 3	1.00 85.11 1.00 85.38 1.00 86.72 1.00132.38 1.00132.51 1.00 98.92 1.00 99.56 1.00 57.99 1.00100.36 1.00100.49 1.00 90.68 1.00 91.70 1.00114.01 1.00 94.60 1.00 95.30 1.00107.85 1.00109.82 1.00110.77 1.00111.66 1.00119.02 1.00117.56 1.00118.84 1.00118.81 1.00112.08 1.00147.49 1.00111.87 1.00147.73 1.00112.31 1.00112.31 1.00112.31 1.00112.31 1.00112.31 1.00199.00 1.00199.67 1.00200.50 1.00199.67 1.00200.50 1.00199.67 1.00201.26 1.00130.11 1.00130.08 1.00 46.75 1.00 45.13 1.00159.19 1.00 44.32 1.00 79.62 1.00 52.82 1.00 51.88 1.00 79.93 1.00 79.62 1.00 79.62 1.00 79.72	6666876668766687666876687666668766666687687
ATOM	2567	0	VAL B 10	3 26.995	68.269 10	10.997	1.00 81.03	0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2568 2570 2571 2577 2577 2577 2577 2577 2577 2577	CG2 C C O N CA CB CG OD1 OD2 C O N CA CB CCD CD1 CCD CCD CCD CCD CCD CCD CCD CCD	THR B 114 THR B 114 PRO B 115 PRO B 115 PRO B 115	25.746 26.154 22.161 21.403 21.754 20.357 20.239 20.398 21.643 19.295 21.792 19.429 20.685 19.639 20.129 18.491 17.644 16.190 16.151 15.290 17.647 16.781 18.610 19.412 18.791	65.661 64.336 64.336 64.308 63.925 63.961 64.654 64.310 65.321 65.199 64.883 63.511 65.990 64.883 63.511 62.928 61.617 62.535 64.258 64.387 63.420 62.243 63.3175 64.431 65.049 66.285 66.305 6	104.000 101.997 101.587 100.059 99.369 99.284 98.804 98.645 98.164 98.084 102.199 102.125 102.819 103.444 104.121 102.566 101.699 102.802 104.038 102.060	1.00 72.39 1.00 71.53 1.00 75.22 1.00 74.93 1.00 74.49 1.00 75.44 1.00 75.90 1.00 76.18 1.00 71.79 1.00 72.18 1.00 60.56 1.00 60.56 1.00 60.62 1.00116.89 1.00 60.99 1.00 60.39 1.00171.54 1.00171.02 1.00172.39 1.00176.53 1.00176.53 1.00176.53 1.00176.88 1.00 93.32 1.00 93.72 1.00208.87	7666676776876668766668766688868766666666
ATOM ATOM ATOM ATOM ATOM ATOM	2617 2618 2619 2620 2621 2622	N CD CA CB CG	PRO B 115	18.610 19.412 18.791 19.749 19.505 17.526	59.086 59.070 57.832 57.035 57.603 57.059	102.802 104.038 102.060 102.953 104.325 101.704	1.00 71.69 1.00 97.44	7 6
ATOM	2623	0	PRO B 115	17.328	JJ. JJL	102.147	1.00 /1.00	J

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	262567890122622663345678901262626666789001866667890018666678900186666678900186666678900186666678900186666667890018666666678900186666666666666666666666666666666666	C O N CA CB CG CD OE2 C O N CA CB CG2 CO N CA CB CG2 CG1 CD1 C O N CA CB CG2 CG1 CD1 C O N CA CB CG	VAL B 119 VAL B 119 VAL B 119 GLU B 120 ILE B 121	14.884 14.695 14.167 14.688 14.037 12.510 11.902 11.985 11.341 14.385 13.772 15.382 15.845 14.940 15.413 13.512 17.451 18.244 19.624 20.325 21.680 22.377 22.751 22.546 20.398 20.442 20.991 21.776 22.254 23.420 21.112 19.941 22.980 23.945 22.883 23.902 23.585 23.708	57.677 57.059 58.129 57.058 56.347 54.873 53.841 52.540 53.339 53.54.515 54.389 54.515 54.389 54.515 54.389 54.950 55.360 57.663 57.	92.037 91.131 89.709 88.638	1.00146.16 1.00146.33 1.00 82.24 1.00 80.53 1.00147.50 1.00147.96 1.00154.86 1.00154.61 1.00155.24 1.00155.74 1.00 88.55 1.00 88.64 1.00119.07 1.00119.07 1.00119.11 1.00 88.12 1.00 87.96 1.00 77.20 1.00 77.42 1.00 51.81 1.00 51.81 1.00 51.41 1.00 51.98 1.00 77.65 1.00142.78 1.00142.78 1.00142.78 1.00143.11 1.00143.41 1.00 89.19 1.00 87.07 1.00137.58 1.00137.58 1.00137.58 1.00137.58 1.00137.58 1.00137.58 1.00137.99 1.00 86.78 1.00 85.86 1.00 88.09 1.00 86.88 1.00 98.50 1.00100.12 1.00102.51	76686876668868766668876666886876666876666
ATOM ATOM	2666 2667	N O	MET B 122 MET B 122	2 22.883 2 23.902	59.058 58.529	92.037 91.131	1.00 88.09 1.00 86.88	7 6
								6 6
ATOM	2671	SD	MET B 122		57.147	88.335	1.00102.51	16
ATOM	2672	CE	MET B 122		55.932		1.00103.27	6
ATOM	2673	C	MET B 122		59.009 58.265		1.00 86.12 1.00 86.13	6 8
ATOM	2674 2675	N N	MET B 122 ASN B 123		60.273		1.00102.30	7
ATOM ATOM	2676	CA	ASN B 123		60.944		1.00100.44	б
ATOM	2677	CB	ASN B 123		62.251	91.479	1.00 44.03	6
ATOM	2678	CG	ASN B 123	3 25.395	62.996		1.00 43.06	6
MOTA	2679	OD1	ASN B 123	3 24.329	62.407	91.626	1.00 41.66	8

ATOM 2758 OE1 GLU B 133

ATOM 2835 CA VAL B 143 13.062 66.298 92.206 1.00 87.96 6 ATOM 2836 CB VAL B 143 13.926 65.042 92.491 1.00 37.59 6 ATOM 2837 CG1 VAL B 143 14.830 64.755 91.306 1.00 37.23 6	ATOM 2835 CA VAL B 143 13.062 66.298 92.206 1.00 87.96 6 ATOM 2836 CB VAL B 143 13.926 65.042 92.491 1.00 37.59 6	ATOM 2792 ATOM 2793 ATOM 2794 ATOM 2795 ATOM 2796 ATOM 2797 ATOM 2797 ATOM 2798 ATOM 2800 ATOM 2801 ATOM 2801 ATOM 2803 ATOM 2804 ATOM 2805 ATOM 2806 ATOM 2807 ATOM 2808 ATOM 2810 ATOM 2810 ATOM 2811 ATOM 2811 ATOM 2812 ATOM 2813 ATOM 2814 ATOM 2815 ATOM 2816 ATOM 2816 ATOM 2817 ATOM 2818 ATOM 2819 ATOM 2820 ATOM 2821 ATOM 2821 ATOM 2821 ATOM 2822 ATOM 2823 ATOM 2823 ATOM 2824 ATOM 2826 ATOM 2827 ATOM 2828 ATOM 2829 ATOM 2831 ATOM 2833 ATOM 2833	CE1 TYR B 138 CD2 TYR B 138 CE2 TYR B 138 CE2 TYR B 138 OH TYR B 138 OH TYR B 138 O TYR B 138 O TYR B 139 O TYR B 139 CA MET B 139 CA MET B 139 CB MET B 139 CG MET B 139 CG MET B 139 CH MET B 140 CH M	14.911 14.331 13.334 13.632 12.654 17.140 16.706 17.071 16.488 17.575 18.504 19.493 20.758 15.573 15.803 14.538 13.577 12.251 12.344 10.978 10.080 13.351 12.263 14.389 14.301 15.729 16.380 15.657 13.435 13.279 12.849 12.028 10.783 10.014 8.820 8.096 6.875 6.214 6.312 12.882 13.995	68.321 107.586 71.020 107.291 70.065 107.063 68.720 107.213 67.781 106.988 71.823 105.461 72.930 105.141 70.760 104.668 70.870 103.343 70.922 102.276 72.111 102.319 72.042 100.831 70.861 101.301 69.719 103.008 68.589 103.416 70.027 102.242 69.038 101.801 69.169 102.554 69.115 104.062 69.016 104.705 69.809 104.340 68.144 105.578 69.381 100.345 69.808 99.966 69.218 99.535 69.528 98.111 69.592 97.478 68.213 97.492 70.129 96.069 68.510 97.352 67.368 97.781 68.947 96.242 68.076 95.412 68.817 94.911 68.064 93.832 68.839 93.298 68.065 92.287 68.355 91.835 69.409 92.298 67.588 90.910 67.669 94.219 68.165 94.050	1.00105.71 1.00104.41 1.00104.53 1.00105.25 1.00 97.46 1.00 98.49 1.00 55.68 1.00 53.23 1.00 45.97 1.00 43.14 1.00 40.08 1.00 53.85 1.00 57.95 1.00 57.39 1.00 57.39 1.00 57.39 1.00 57.39 1.00 57.39 1.00 57.39 1.00 57.39 1.00 57.39 1.00 68.31 1.00 68.33 1.00 68.33 1.00 68.33 1.00 68.33 1.00 68.33 1.00 68.33 1.00 68.33 1.00 68.33 1.00 89.77 1.00 68.33 1.00 89.77 1.00 89.77 1.00 89.35 1.00 93.50 1.00 93.50 1.00 93.50 1.00 94.27 1.00 90.42 1.00 91.24	6666868766668766668868766668876666767768
ATOM 2834 N VAL B 143 12.369 66.752 93.406 1.00 89.15 7 ATOM 2835 CA VAL B 143 13.062 66.298 92.206 1.00 87.96 6 ATOM 2836 CB VAL B 143 13.926 65.042 92.491 1.00 37.59 6 ATOM 2837 CG1 VAL B 143 14.830 64.755 91.306 1.00 37.23 6	ATOM 2834 N VAL B 143 12.369 66.752 93.406 1.00 89.15 7 ATOM 2835 CA VAL B 143 13.062 66.298 92.206 1.00 87.96 6 ATOM 2836 CB VAL B 143 13.926 65.042 92.491 1.00 37.59 6 ATOM 2837 CG1 VAL B 143 14.830 64.755 91.306 1.00 37.23 6 ATOM 2838 CG2 VAL B 143 14.788 65.269 93.739 1.00 36.71 6 ATOM 2839 C VAL B 143 11.955 66.020 91.182 1.00 89.07 6 ATOM 2840 O VAL B 143 10.777 66.012 91.537 1.00 89.12 8 ATOM 2841 N ASP B 144 12.310 65.795 89.922 1.00 83.46 7 ATOM 2842 CA ASP B 144 11.277 65.607 88.905 1.00 83.97 6 ATOM 2843 CB ASP B 144 10.793 66.988 88.454 1.00 69.07 6	ATOM 2828 ATOM 2829 ATOM 2830 ATOM 2831 ATOM 2832	NE ARG B 142 CZ ARG B 142 NH1 ARG B 142 NH2 ARG B 142 C ARG B 142	8.096 6.875 6.214 6.312 12.882	68.065 92.287 68.355 91.835 69.409 92.298 67.588 90.910 67.669 94.219	1.00 92.35 1.00 93.50 1.00 93.60 1.00 94.27 1.00 90.42	7 6 7 7 6
	ATOM 2839 C VAL B 143 11.955 66.020 91.182 1.00 89.07 6 ATOM 2840 O VAL B 143 10.777 66.012 91.537 1.00 89.12 8 ATOM 2841 N ASP B 144 12.310 65.795 89.922 1.00 83.46 7 ATOM 2842 CA ASP B 144 11.277 65.607 88.905 1.00 83.97 6 ATOM 2843 CB ASP B 144 10.793 66.988 88.454 1.00 69.07 6	ATOM 2834 ATOM 2835 ATOM 2836 ATOM 2837	N VAL B 143 CA VAL B 143 CB VAL B 143 CG1 VAL B 143	12.369 13.062 13.926 14.830	66.752 93.406 66.298 92.206 65.042 92.491 64.755 91.306	1.00 89.15 1.00 87.96 1.00 37.59 1.00 37.23	7 6 6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	2904 2906 2907 290	CE1 NE2 C O N CA C O N CA CB CG2 CG1 CD1 C O N CA CB CCB CCD CCA CB CCD CCA CCB CCD CCC CCD CC	HIS B 155 HIS B 155 HIS B 155 HIS B 155 GLY B 156 GLY B 156 GLY B 156 GLY B 156 GLY B 157 ILE B 158 LYS B 158	10.635 10.154 9.974 8.6240 7.300 6.839 5.681 7.588.5136 7.2846 8.3154 6.3313 7.2284 5.046 5.3136 7.332 7.332 7.348 5.7833 4.583 7.396 8.317 6.414 6.861 3.890 6.7191 7.414 6.861 3.890 6.704 7.304 6.704 7.304 7.305 8.313 7.3	79.979 81.035 79.258 79.422 79.820 81.159 82.160 81.214 78.190 77.010 75.852 74.185 73.684 73.321 75.204 76.997 77.938 79.645 78.045 79.645 79.645 79.645 79.75.204 77.938 76.035 76.188 76.036 77.038	86.157 86.3897 85.497 85.497 85.4999 86.3897 82.4129996 83.295996 83.295996 83.295996 83.295996 83.295996 84.2959996 85.287 84.2959996 85.287 86.2959996 87.240 88.4138 88.891 88.8934 89.9955 89.9956 89.995	1.00 44.62 1.00 44.85 1.00173.69 1.00177.64 1.00172.29 1.00175.51 1.00177.58 1.00179.18 1.00179.79 1.00180.54 1.00116.41 1.00117.36 1.00160.53 1.00164.64 1.00163.10 1.00171.03 1.00171.03 1.00171.03 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.38 1.00171.39 1.00208.87 1.00109.75 1.00109.75 1.00109.75 1.00109.75 1.00109.75 1.00109.75 1.00109.75 1.00104.50 1.00128.34 1.00128.34 1.00128.34	687666688687666676776876666767687668766
ATOM ATOM ATOM	2951 2952 2953	CG CD CE	LYS B 158 LYS B 158 LYS B 158	6.666 7.045	68.780 67.522 66.299 72.330 72.604 72.587 73.231	96.535 95.767	1.00127.58 1.00128.34	6 6
AIOH	4707	CD	יייי ע דיייי	7.001	, 3 . 3 2 0		,	ŭ

ATOM ATOM ATOM ATOM	2960 2961 2962 2963	CG OD1 OD2 C	ASP B 159 ASP B 159 ASP B 159 ASP B 159	6.953 8.307	73.852 73.253 74.871 74.624	102.174 103.054 102.412 100.102	1.00 76.09 1.00 76.19 1.00 76.49 1.00 68.26	6 8 8 6
ATOM	2964	Ö	ASP B 159		75.593	100.102	1.00 67.90	8
ATOM	2965	N	ARG B 160		74.697	99.492	1.00 91.05	7
ATOM	2966	CA	ARG B 160		75.932	99.333	1.00 91.10	6
ATOM	2967	CB	ARG B 160		76.097	100.489	1.00196.98	6
ATOM	2968	CG	ARG B 160		77.020	100.169	1.00199.78	6
ATOM	2969	CD	ARG B 160		76.898	101.215	1.00201.81	6
ATOM	2970 2971	NE	ARG B 160		77.522	100.779	1.00202.57	7
ATOM ATOM	2971	CZ NH1	ARG B 160		77.484 76.853	101.471 102.637	1.00202.64 1.00203.08	6 7
ATOM	2972	NH2	ARG B 160		78.074	102.037	1.00203.08	7
ATOM	2974	C	ARG B 160		77.156	99.235	1.00202.23	6
ATOM	2975	Ŏ	ARG B 160		77.576	98.131	1.00 90.77	8
MOTA	2976	N	ILE B 161		77.714	100.388	1.00111.41	7
MOTA	2977	CA	ILE B 161		78.897	100.453	1.00108.90	6
MOTA	2978	СВ	ILE B 161		79.910	101.467	1.00155.30	6
ATOM	2979	CG2	ILE B 161		81.240	101.329	1.00155.26	6
ATOM	2980 2981	CG1	ILE B 161		80.101	101.221	1.00156.01	6
ATOM ATOM	2981	CD1 C	ILE B 161 ILE B 161		80.897 78.537	102.286 100.831	1.00157.04 1.00106.94	6 6
ATOM	2983	0	ILE B 161		77.547	100.831	1.00106.34	8
MOTA	2984	N	ASN B 162		79.360	100.381	1.00157.69	7
ATOM	2985	CA	ASN B 162		79.144	100.613	1.00155.50	6
MOTA	2986	CB	ASN B 162		78.754	102.065	1.00120.56	6
MOTA	2987	CG	ASN B 162		79.725	103.054	1.00120.85	6
MOTA	2988	OD1	ASN B 162		80.936	102.847	1.00120.63	8
MOTA	2989	ND2	ASN B 162		79.201	104.148	1.00121.34	7
ATOM ATOM	2990 2991	C O	ASN B 162 ASN B 162		78.014 76.847	99.692 100.086	1.00154.09 1.00154.31	6 8
ATOM	2992	N	ALA B 163		78.364	98.463	1.00134.31	7
ATOM	2993	CA	ALA B 163		77.354	97.496	1.00 77.70	6
ATOM	2994	CB	ALA B 163		77.121	96.541	1.00 55.98	6
MOTA	2995	С	ALA B 163		77.639	96.703	1.00 72.69	6
MOTA	2996	0	ALA B 163		76.715	96.355	1.00 73.43	8
MOTA	2997	N	ILE B 164		78.904	96.410	1.00 59.09	7
ATOM	2998	CA	ILE B 164		79.242	95.626	1.00 57.08	6
ATOM	2999	CB CG2	ILE B 164		79.360 80.364	96.542	1.00 43.29	6
ATOM ATOM	3000 3001		ILE B 164		78.026	97.641 97.206	1.00 43.45 1.00 42.16	6 6
ATOM	3002	CD1			78.112	98.133	1.00 41.64	6
ATOM	3003	C	ILE B 164		78.188	94.520	1.00 55.27	6
ATOM	3004	0	ILE B 164		77.762	94.253	1.00 55.18	8
ATOM	3005	N	PRO B 165		77.792	93.835	1.00 54.05	7
ATOM	3006	CD	PRO B 165		78.566	93.734	1.00 45.24	6
MOTA	3007	CA	PRO B 165		76.794	92.768	1.00 53.19	6
ATOM ATOM	3008 3009	CB CG	PRO B 165		76.955 78.380	92.083 92.281	1.00 44.74 1.00 44.95	6 6
ATOM	3010	C	PRO B 165		76.948	91.798	1.00 44.93	6
ATOM	3011	Ö	PRO B 165		77.945	91.093	1.00 51.05	8
ATOM	3012	N	VAL B 166	14.638	75.941	91.773	1.00 53.76	7
ATOM	3013	CA	VAL B 166		75.942	90.877	1.00 52.63	6
ATOM	3014	CB	VAL B 166		74.880	91.303	1.00 37.36	6
MOTA	3015	CGT	VAL B 166	17.762	75.491	92.294	1.00 37.27	6

ATOM ATOM ATOM ATOM ATOM	3016 3017 3018 3019 3020	CG2 C O N CA	VAL B VAL B ASP B	166 166 166 167 167	16.088 15.295 14.093 16.228 15.860	73.698 75.691 75.552 75.648 75.429	91.955 89.452 89.214 88.507 87.116	1.00 37.18 1.00 53.14 1.00 52.50 1.00 51.01 1.00 51.58	6 6 8 7 6
ATOM ATOM ATOM	3021 3022 3023	CB CG OD1	ASP B ASP B	167 167 167	16.843 16.933 15.857	76.149 77.631 78.266	86.193 86.490 86.604	1.00 56.28 1.00 56.37 1.00 56.07	6 6 8
ATOM ATOM ATOM	3024 3025 3026	OD2 C O	ASP B	167 167 167	18.067 15.785 16.523	78.157 73.942 73.117	86.608 86.771 87.316	1.00 55.57 1.00 52.93 1.00 54.06	8 6 8
ATOM	3027	N	ALA B	168	14.880	73.612	85.860	1.00 70.74	7
ATOM ATOM	3028 3029	CA CB		168 168	14.660 13.238	72.237 72.089	85.446 84.963	1.00 72.04 1.00 93.07	6 6
ATOM	3030	Ċ		168	15.621	71.764	84.368	1.00 73.25	6
MOTA	3031	0		168	15.318	71.848	83.176	1.00 74.88	8
ATOM	3032 3033	N		169	16.774	71.254	84.784	1.00 40.64	7
ATOM ATOM	3033	CA CB		169 169	17.757 19.213	70.769 71.068	83.832 84.313	1.00 41.50 1.00 98.30	6 6
MOTA	3035	CG2		169	19.539	72.525	84.130	1.00 97.49	6
MOTA	3036	CG1	ILE B	169	19.381	70.705	85.793	1.00100.66	6
ATOM	3037	CD1		169	19.738	69.249	86.070	1.00102.42	6
MOTA ATOM	3038 3039	C O		169 169	17.619	69.273	83.586	1.00 41.74 1.00 42.04	6
ATOM	3040	N		170	18.592 16.432	68.532 68.802	83.729 83.211	1.00 42.04 1.00 42.29	8 7
ATOM	3041	CA		170	16.317	67.361	82.977	1.00 43.20	6
ATOM	3042	CB		170	15.013	66.777	83.538	1.00 61.40	6
ATOM	3043	CG		170	13.954	67.786	83.836	1.00 63.03	6
ATOM ATOM	3044 3045	CD1 CD2		170 170	13.399 13.438	68.556 67.889	82.827 85.124	1.00 63.24 1.00 63.04	6 6
ATOM	3045	CE1		170	12.338	69.403	83.124	1.00 63.04	6
ATOM	3047	CE2		170	12.381	68.732	85.398	1.00 62.50	6
ATOM	3048	CZ		170	11.827	69.489	84.379	1.00 62.13	6
ATOM	3049	C		170	16.502	66.878	81.545	1.00 42.83	6
ATOM ATOM	3050 3051	O N		170 171	15.619 17.672	67.031 66.276	80.700 81.318	1.00 42.08 1.00 58.08	8 7
ATOM	3052	CA		171	18.105	65.721	80.035	1.00 57.84	6
ATOM	3053	СВ	SER B	171	18.167	66.810	78.959	1.00 64.81	6
ATOM	3054	OG		171	16.915	67.437	78.764	1.00 66.33	8
ATOM ATOM	3055 3056	C	SER B SER B		19.519 20.482	65.173 65.929	80.243 80.186	1.00 58.17 1.00 58.94	6
ATOM	3057	O N	PRO B		19.663	63.858	80.480	1.00 58.94	8 7
ATOM	3058	CD	PRO B		18.555	62.888	80.478	1.00125.39	6
ATOM	3059	CA	PRO B	172	20.948	63.178	80.702	1.00 62.05	6
MOTA	3060	СВ		172	20.586	61.714	80.509	1.00124.61	6
ATOM ATOM	3061 3062	CG C	PRO B PRO B		19.206 22.105	61.658 63.621	81.068 79.791	1.00125.56 1.00 62.13	6
ATOM	3063	0	PRO B		23.274	63.464	80.141	1.00 62.13	6 8
ATOM	3064	N	VAL B	173	21.774	64.151	78.617	1.00 50.25	7
ATOM	3065	CA	VAL B		22.775	64.643	77.679	1.00 49.25	6
ATOM ATOM	3066 3067	CB CG1	VAL B VAL B		22.246 21.865	64.633 63.242	76.232 75.819	1.00 47.86 1.00 46.05	6
ATOM	3068	CG2	VAL B		21.003	65.531	76.123	1.00 48.20	6 6
ATOM	3069	C	VAL B		22.992	66.093	78.087	1.00 50.28	6
ATOM	3070	0	VAL B		22.022	66.787	78.407	1.00 50.57	8
ATOM	3071	N	ARG B	174	24.238	66.565	78.080	1.00 46.53	7

ATOM 3087 NE ARG B 175 30.879 70.341 74.074 1.00 60.67 7 ATOM 3088 NH1 ARG B 175 32.160 70.044 73.914 1.00 61.35 6 ATOM 3099 NH1 ARG B 175 32.771 69.274 74.800 1.00 62.34 7 ATOM 3091 C ARG B 175 32.821 70.495 72.859 1.00 61.62 7 ATOM 3092 O ARG B 175 26.804 66.867 74.174 1.00 28.19 8 ATOM 3093 N VAL B 176 26.163 68.521 72.837 1.00 43.00 7 ATOM 3094 CA VAL B 176 26.163 68.521 72.837 1.00 43.00 7 ATOM 3095 CB VAL B 176 26.209 67.663 71.674 1.00 42.87 6 ATOM 3096 CG1 VAL B 176 24.808 66.209 70.197 1.00 59.69 6 ATOM 3097 CG2 VAL B 176 24.808 66.679 72.535 1.00 59.65 6 ATOM 3099 O VAL B 176 26.236 69.206 69.832 1.00 43.32 8 ATOM 3100 N ALA B 177 28.047 67.883 70.093 1.00 43.32 8 ATOM 3101 CA ALA B 177 28.047 67.883 70.093 1.00 44.13 6 ATOM 3102 CB ALA B 177 28.946 67.333 67.846 1.00 44.37 6 ATOM 3103 C ALA B 177 28.946 67.333 67.846 1.00 44.35 8 ATOM 3103 C ALA B 177 28.946 67.333 67.846 1.00 43.58 6 ATOM 3105 CB PHE B 178 29.216 66.970 65.523 1.00 17.34 6 ATOM 3106 CA PHE B 178 29.413 66.806 65.523 1.00 17.34 6 ATOM 3107 CB PHE B 178 29.413 66.806 65.523 1.00 17.34 6 ATOM 3101 CD2 PHE B 178 29.413 66.806 65.523 1.00 17.34 6 ATOM 3102 CB ALA B 177 28.946 67.333 67.846 1.00 43.58 6 ATOM 3103 C ALA B 177 28.946 67.333 67.846 1.00 43.93 7 ATOM 3101 CD2 PHE B 178 29.236 67.754 66.618 1.00 17.34 6 ATOM 3102 CB ALA B 177 28.946 67.333 67.846 1.00 28.38 6 ATOM 3103 C ALA B 177 28.946 67.333 67.846 1.00 28.38 6 ATOM 3104 CD2 PHE B 178 29.236 67.754 66.618 1.00 17.34 6 ATOM 3105 N PHE B 178 29.236 67.754 66.618 1.00 25.18 6 ATOM 3110 CD2 PHE B 178 29.345 66.970 66.4492 1.00 26.31 6 ATOM 3110 CD2 PHE B 178 26.323 67.910 65.151 1.00 24.98 6 ATOM 3111 CEI PHE B 178 26.323 67.910 65.141 65.248 1.00 23.37 6 ATOM 3112 CE PHE B 178 26.323 67.910 65.141 65.248 1.00 23.37 6 ATOM 3112 CG GLN B 179 31.949 67.473 62.369 1.00 65.93 6 ATOM 3113 CG GLN B 179 31.949 67.473 62.369 1.00 65.93 6 ATOM 3113 CG GLN B 179 31.949 67.473 62.369 1.00 65.93 6 ATOM 3120 CG GLN B 179 31.949 67.473 62.369 1.00 65.93 6 ATOM 3121 CG GLN B 179 31.949 65.738
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ATOM ATOM	3128 3129	CG1 CG2	VAL B VAL B	180 180	29.190 29.706	67.013 64.663	57.885 57.172	1.00 69.38 1.00 69.19	6 6
ATOM	3130	C	VAL B		32.127	66.030	57.990	1.00 35.36	6
MOTA	3131	0	VAL B	180	31.912	66.779	57.033	1.00 35.29	8
MOTA	3132	N	GLU B	181	33.296	65.428 65.627	58.168 57.219	1.00 62.66 1.00 65.99	7 6
ATOM ATOM	3133 3134	CA CB	GLU B GLU B	181 181	34.383 35.724	65.329	57.219	1.00 65.99	6
ATOM	3135	CG	GLU B	181	36.953	65.566	57.025	1.00123.47	6
MOTA	3136	CD	GLU B	181	38.245	65.511	57.823	1.00124.36	6
MOTA	3137	OE1	GLU B	181	38.399	64.565	58.628	1.00123.76	8
ATOM	3138	OE2	GLU B	181	39.108	66.402	57.644	1.00125.31	8
ATOM ATOM	3139 3140	C O	GLU B GLU B	181 181	34.175 33.316	64.714 63.842	56.004 56.019	1.00 67.27 1.00 68.13	6 8
ATOM	3140	N	ASP B	182	34.943	64.921	54.945	1.00 68.13	7
ATOM	3142	CA	ASP B	182	34.808	64.091	53.763	1.00 45.68	6
ATOM	3143	СВ	ASP B		35.001	64.914	52.486	1.00 97.05	6
MOTA	3144	CG	ASP B	182	34.684	66.383	52.677	1.00 98.74	6
ATOM	3145	OD1	ASP B	182	33.808	66.704	53.506	1.00100.74	8
ATOM ATOM	3146 3147	C C	ASP B ASP B	182 182	35.302 35.875	67.218 63.008	51.983 53.816	1.00 97.37 1.00 47.05	8 6
ATOM	3147	0	ASP B	182	36.967	63.237	54.333	1.00 47.03	8
MOTA	3149	Ň	THR B	183	35.548	61.832	53.285	1.00 51.94	7
ATOM	3150	CA	THR B	183	36.461	60.686	53.225	1.00 53.53	6
ATOM	3151	CB	THR B	183	36.225	59.684	54.366	1.00 71.65	6
ATOM ATOM	3152 3153	OG1 CG2	THR B	183 183	34.860 36.547	59.248 60.318	54.340 55.704	1.00 71.78 1.00 72.82	8 6
ATOM	3154	CGZ	THR B	183	36.347	59.993	51.922	1.00 72.82	6
ATOM	3155	0	THR B		34.991	60.012	51.479	1.00 54.35	8
MOTA	3156	N	ALA B	184	37.137	59.360	51.319	1.00129.81	7
ATOM	3157	CA	ALA B		36.918	58.709	50.042	1.00131.82	6
ATOM	3158 3159	CB C	ALA B		37.776 37.140	59.367 57.215	48.990 49.991	1.00 58.25 1.00133.33	6 6
ATOM ATOM	3160	0	ALA B	184	37.140	56.745	49.391	1.00133.33	8
ATOM	3161	N	LEU B	185	36.553	56.454	50.911	1.00134.76	7
ATOM	3162	CA	LEU B	185	36.730	55.008	50.835	1.00148.94	6
MOTA	3163	CB	LEU B	185	35.855	54.272	51.850	1.00 94.82	6
MOTA	3164	CG	LEU B	185	36.328	54.260	53.306	1.00 94.69	6
ATOM ATOM	3165 3166	CD1 CD2	LEU B	185 185	35.483 37.801	53.256 53.882	54.075 53.387	1.00 94.46 1.00 93.85	6 6
ATOM	3167	CDZ			36.304	54.652	49.419	1.00149.86	6
ATOM	3168	Ö			37.106	54.147	48.629	1.00150.21	8
MOTA	3169	N	GLY B		35.041	54.921	49.093	1.00 67.38	7
MOTA	3170	CA	GLY B		34.596	54.663	47.741	1.00 68.06	6
MOTA ATOM	3171 3172	C 0	GLY B		35.455 35.579	55.625 56.778	46.944 47.356	1.00 68.15 1.00 68.60	6 8
ATOM	3172	N	GLN B		36.064	55.171	45.847	1.00110.85	7
MOTA	3174	CA	GLN B		36.927	56.015	45.008	1.00110.89	6
MOTA	3175	CB	GLN B		36.852	55.563	43.549	1.00 71.69	6
ATOM	3176	CG	GLN B		37.833	56.277	42.633	1.00 70.62	6
MOTA MOTA	3177 3178	CD OE1	GLN B		37.348 36.859	57.617 57.716	42.111 40.986	1.00 70.79 1.00 71.50	6 8
ATOM	3179	NE2	GLN B		37.485	58.654	42.924	1.00 71.30	7
ATOM	3180	C	GLN B		36.619	57.510	45.069	1.00110.45	6
ATOM	3181	0	GLN B	187	37.488	58.312	45.414	1.00110.76	8
MOTA	3182	N	ARG B		35.394	57.877	44.694	1.00 83.21	7
MOTA	3183	CA	ARG B	ΤΩΩ	34.936	59.265	44.715	1.00 82.05	6

ATOM ATOM	3184 3185	CB CG	ARG B	188 188	33.412 32.820	59.298 60.676	44.738 44.639	1.00138.62 1.00139.12	6 6
ATOM ATOM	3186 3187	CD NE		188 188	31.322 30.722	60.625 61.944	44.855 44.704	1.00139.80 1.00141.03	6 7
ATOM	3188	CZ		188	29.450	62.221	44.971	1.00141.96	6
MOTA	3189	NH1		188	28.639	61.266	45.409	1.00143.04	7
ATOM	3190	NH2		188	28.989 35.491	63.454 59.892	44.800 45.985	1.00141.62 1.00 80.56	7 6
ATOM ATOM	3191 3192	C 0		188 188	35.553	59.236	47.024	1.00 80.30	8
ATOM	3193	N		189	35.878	61.161	45.915	1.00 77.04	7
ATOM	3194	CA		189	36.477	61.828	47.067	1.00 74.63	6 6
ATOM ATOM	3195 3196	CB OG1		189 189	37.717 37.354	62.551 63.515	46.638 45.645	1.00 59.96 1.00 60.93	8
ATOM	3197	CG2		189	38.713	61.575	46.050	1.00 59.93	6
MOTA	3198	C		189	35.638	62.826	47.854	1.00 71.92	6 8
MOTA MOTA	3199 3200	O N		189 190	36.171 34.341	63.526 62.905	48.716 47.576	1.00 72.50 1.00 63.78	7
ATOM	3200	CA		190	33.491	63.841	48.297	1.00 61.55	6
MOTA	3202	CB		190	32.921	64.882	47.330	1.00 77.28	6
ATOM	3203	CG		190 190	32.553 33.453	64.292 63.761	45.994 45.309	1.00 78.99 1.00 79.32	6 8
MOTA MOTA	3204 3205	OD1 OD2		190	31.365	64.365	45.625	1.00 80.25	8
MOTA	3206	C	ASP B	190	32.366	63.199	49.099	1.00 58.55	6
ATOM	3207	0		190	31.262 32.649	63.725 62.076	49.159 49.741	1.00 59.65 1.00 74.59	8 7
ATOM ATOM	3208 3209	N CA	LEU B	191 191	32.649	61.417	50.530	1.00 74.33	6
ATOM	3210	СВ	LEU B	191	31.870	59.915	50.490	1.00 39.25	6
ATOM	3211	CG	LEU B	191	31.700	59.458	49.027	1.00 38.40 1.00 37.17	6 6
ATOM ATOM	3212 3213	CD1		191 191	32.178 30.238	58.033 59.588	48.832 48.622	1.00 37.17	6
MOTA	3214	C	LEU B	191	31.610	61.981	51.953	1.00 70.45	6
MOTA	3215	0	LEU B	191	32.562	62.647	52.357	1.00 72.17 1.00 39.62	8 7
ATOM ATOM	3216 3217	N CA	ASP B	192 192	30.523 30.354	61.740 62.265	52.696 54.068	1.00 39.62 1.00 36.40	6
ATOM	3218	CB		192	28.898	62.701	54.282	1.00 78.82	6
ATOM	3219	CG		192	28.578	64.025	53.601	1.00 79.38	6
ATOM ATOM	3220 3221	OD1 OD2		192 192	29.164 27.735	64.299 64.783	52.532 54.131	1.00 79.92 1.00 79.32	8 8
ATOM	3222	C	ASP B		30.773	61.330	55.199	1.00 32.27	6
ATOM	3223	0	ASP B		30.658	60.115	55.081	1.00 31.34	8 7
ATOM ATOM	3224 3225	N CA	LYS B LYS B		31.248 31.718	61.917 61.163	56.294 57.450	1.00 21.17 1.00 18.63	6
ATOM	3226	CB	LYS B		33.241	61.060	57.446	1.00 54.65	6
MOTA	3227	CG	LYS B	193	33.820	60.353	58.652	1.00 55.49	6
MOTA	3228 3229	CD CE	LYS B LYS B		34.597 35.959	59.149 59.038	58.199 58.888	1.00 58.46 1.00 60.61	6 6
ATOM ATOM	3230	NZ	LYS B		36.881	58.045	58.209	1.00 62.12	7
MOTA	3231	С	LYS B	193	31.264	61.796	58.757	1.00 16.86	6
ATOM	3232 3233	N O	LYS B LEU B		32.071 29.960	62.340 61.671	59.534 58.985	1.00 15.25 1.00 56.76	8 7
ATOM ATOM	3233	CA	LEU B		29.248	62.189	60.146	1.00 54.94	6
MOTA	3235	СВ	LEU B	194	28.004	61.332	60.376	1.00 26.43	6
ATOM ATOM	3236 3237	CG CD1	LEU B LEU B		26.860 26.960	61.933 61.449	61.191 62.612	1.00 23.96 1.00 23.82	6 6
ATOM	3238	CD1			26.879	63.450	61.118	1.00 22.05	6
ATOM	3239	C	LEU B		29.995	62.384	61.468	1.00 54.76	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3240 3241 3242 3243 3244 3245 3246	O N CA CB OG1 CG2 C	THR B 1 THR B 1 THR B 1 THR B 1	194 195 195 195 195 195	30.366 30.211 30.885 32.305 33.111 32.929 30.127	63.506 61.316 61.427 62.008 61.165 62.113 62.323	61.799 62.227 63.529 63.430 62.607 64.826 64.513	1.00 55.92 1.00 24.80 1.00 24.82 1.00 13.87 1.00 13.87 1.00 13.87 1.00 27.11	8 7 6 6 8 6
ATOM ATOM	3247 3248	N O	THR B 1	L95 L96	29.933 29.710	63.510 61.748	64.266 65.634	1.00 27.79 1.00 83.35	8 7
MOTA MOTA	3249 3250	CA CB	LEU B 1	L96 L96	28.987 27.600	62.491 61.889	66.655 66.865	1.00 85.23 1.00 37.74	6 6
ATOM ATOM	3251 3252	CG CD1		L96 L96	26.427 26.607	62.775 63.276	66.443 65.031	1.00 37.19 1.00 35.58	6 6
MOTA MOTA	3253 3254	CD2 C		L96 L96	25.156 29.779	61.986 62.409	66.537 67.941	1.00 38.11 1.00 88.34	6 6
ATOM ATOM	3255 3256	O N	LEU B 1	L96 L97	30.801 29.316	61.729 63.111	67.998 68.968	1.00 90.29 1.00 85.67	8 7
MOTA	3257	CA	ARG B 1	L97	29.977	63.095	70.267	1.00 87.64	6
ATOM ATOM	3258 3259	CB CG	ARG B 1	L97 L97	31.277 31.185	63.895 65.241	70.208 69.531	1.00 65.93 1.00 68.55	6 6
ATOM ATOM	3260 3261	CD NE		L97 L97	32.584 32.618	65.793 67.245	69.339 69.442	1.00 73.98 1.00 77.56	6 7
ATOM ATOM	3262 3263	CZ NH1		L97 L97	33.720 34.881	67.948 67.328	69.682 69.841	1.00 79.42 1.00 81.24	6 7
MOTA	3264	NH2	ARG B 1	L97 L97	33.659 29.020	69.269 63.642	69.778 71.314	1.00 79.66 1.00 89.08	, 7 6
ATOM ATOM	3265 3266	C 0	ARG B 1	L97	28.980	64.840	71.597	1.00 90.63	8
ATOM ATOM	3267 3268	N CA		L98 L98	28.251 27.217	62.718 63.003	71.880 72.861	1.00 28.99 1.00 29.28	7 6
ATOM ATOM	3269 3270	CB CG2		198 198	26.045 25.714	61.980 61.278	72.665 73.933	1.00 51.66 1.00 52.32	6 6
ATOM ATOM	3271 3272	CG1 CD1	ILE B 1	L98 L98	24.805 24.873	62.683 63.007	72.114 70.646	1.00 52.64 1.00 55.60	6 6
MOTA	3273	C	ILE B 1	L98	27.731	63.000	74.299 74.852	1.00 30.75 1.00 30.87	6 8
ATOM ATOM	3274 3275	N O	TRP B 1	198 199	28.034 27.847	61.955 64.179	74.901	1.00 48.14	7
MOTA MOTA	3276 3277	CA CB		L99 L99	28.312 29.041	64.280 65.602	76.282 76.544	1.00 50.03 1.00 51.23	6 6
MOTA MOTA	3278 3279	CG CD2		199 199	30.115 31.525	65.946 65.840	75.560 75.762	1.00 52.27 1.00 52.01	6 6
MOTA MOTA	3280 3281	CE2 CE3		199	32.149 32.324	66.243 65.440	74.564 76.837	1.00 51.99 1.00 52.21	6 6
MOTA	3282	CD1	TRP B 1	199	29.946	66.401	74.282 73.678	1.00 52.95 1.00 52.35	6 7
MOTA MOTA	3283 3284	NE1 CZ2	TRP B 1	199	31.161	66.582	74.411	1.00 51.93	6
MOTA MOTA	3285 3286	CZ3 CH2	TRP B 1	199	33.710 34.301	65.452 65.856	76.683 75.480	1.00 52.41 1.00 51.86	6 6
ATOM ATOM	3287 3288	C 0	TRP B 1		27.076 26.265	64.235 65.164	77.158 77.145	1.00 51.99 1.00 52.37	6 8
MOTA MOTA	3289 3290	N CA	THR B 2		26.928 25.770	63.155 63.002	77.920 78.797	1.00 95.11 1.00 96.45	7 6
MOTA MOTA	3291 3292	CB OG1	THR B 2	200	24.694 24.987	62.115 60.742	78.166 78.445	1.00148.63 1.00149.74	6 8
MOTA	3293	CG2	THR B 2	200	24.666	62.310	76.678	1.00147.62 1.00 96.31	6 6
ATOM ATOM	3294 3295	С О	THR B 2 THR B 2		26.150 26.988	62.350 61.452	80.113 80.152	1.00 96.31	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3296 3297 3298 3301 3303 3303 3303 3303 3311	C O N CA CB CG	LEU B 207 LEU B 207 LEU B 207 GLU B 208 GLU B 208 GLU B 208 GLU B 208	25.5 25.7 27.6 26.8 24.6 23.6 24.6 23.6 22.1 20.3 21.3 20.4 22.1 23.3 20.4 22.7 23.3 24.3 24.5 24.5 25.4 26.7 26.8 27.6	59 62.24 61.72 61.33 66 61.48 62.29 63.32 77 62.45 47 62.54 92 63.32 59 59.99 60 59.99 50 58.89 57 52.33 59 59.99 60 58.09 57 59.99 58 57.92 50 58.27 50 58.27 60 58.29 57 54.72 60 55.26 61 57.79 50 57.28 60 57.28 61 57.79 62 57.23 63 57.31 64 53.31 64 54.40 53 55.31 64 54.40 53 55.31 64 54.30 65 55.31 66 55.31 67 55.31 <th>7 82.514 83.083 84.145 85.011 83.446 84.631 84.631 84.639 83.692 84.483 96.84.113 84.638 84.638 84.638 84.638 84.638 84.638 84.678 80.392 84.678 80.392 80.409 79.093 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 77.028 77.029 77.037 77.0468 77.0468 77.0568 77.0671 72.0671 73.1692 74.660 75.545 76.752 77.097 77.097</th> <th>1.00 61.02 1.00128.03</th> <th>66666687666</th>	7 82.514 83.083 84.145 85.011 83.446 84.631 84.631 84.639 83.692 84.483 96.84.113 84.638 84.638 84.638 84.638 84.638 84.638 84.678 80.392 84.678 80.392 80.409 79.093 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 80.409 77.7327 77.028 77.028 77.029 77.037 77.0468 77.0468 77.0568 77.0671 72.0671 73.1692 74.660 75.545 76.752 77.097 77.097	1.00 61.02 1.00128.03	66666687666
ATOM ATOM ATOM	3343 3344 3345	N CA CB	GLU B 208 GLU B 208 GLU B 208 GLU B 208 GLU B 208 GLU B 208	22.8 21.4 21.3	364 55.32 461 55.21 302 55.11 343 53.71 287 53.60 215 54.06 49 53.06 742 56.45	74.660 8 75.023 7 76.546 4 77.097 8 78.591 72 79.041 50 79.315 8 74.497	1.00 61.02 1.00128.03 1.00131.02 1.00133.34 1.00134.35	6666886

ATOM 3353 CA ALA B 209 20.653 58.857 74.402 1.00 65.98 6 ATOM 3354 CB ALA B 209 21.552 60.033 74.735 1.00 16.711 6 ATOM 3355 C ALA B 209 20.453 58.760 72.891 1.00 66.92 6 ATOM 3355 C ALA B 209 19.319 58.605 72.431 1.00 67.52 8 ATOM 3355 O ALA B 209 19.319 58.605 72.431 1.00 67.52 8 ATOM 3355 CA LEU B 210 21.543 58.756 72.123 1.00 73.45 6 ATOM 3359 CB LEU B 210 22.633 58.766 72.123 1.00 73.45 6 ATOM 3359 CB LEU B 210 22.637 57.718 68.591 1.00 36.68 6 ATOM 3361 CD1 LEU B 210 22.693 57.718 68.591 1.00 36.68 6 ATOM 3361 CD1 LEU B 210 22.266 58.832 67.646 1.00 36.19 6 ATOM 3363 C LEU B 210 22.266 58.832 67.646 1.00 36.19 6 ATOM 3363 C LEU B 210 20.312 57.752 70.178 1.00 73.49 8 ATOM 3365 N ASN B 211 120.4030 57.169 68.179 1.00 73.49 8 ATOM 3365 CA ASN B 211 19.475 55.452 70.005 1.00 94.91 6 ATOM 3366 CA ASN B 211 19.475 55.452 70.005 1.00 94.91 6 ATOM 3368 CG ASN B 211 19.789 54.099 70.646 1.00 47.61 6 ATOM 3367 CB ASN B 211 20.855 53.047 68.782 1.00 49.54 8 ATOM 3369 OD1 ASN B 211 20.855 53.047 68.782 1.00 49.54 8 ATOM 3370 ND2 ASN B 211 17.783 55.967 70.171 1.00 49.90 7 ATOM 3371 C ASN B 211 120.855 53.047 68.782 1.00 94.05 6 ATOM 3373 N GLN B 212 17.863 56.119 71.666 1.00 48.75 7 ATOM 3373 C ASN B 211 17.863 56.119 71.666 1.00 48.75 7 ATOM 3376 C G GLN B 212 16.566 56.527 71.666 1.00 48.75 7 ATOM 3377 CD GLN B 212 16.506 57.235 75.889 1.00 74.54 6 ATOM 3378 OLD GLN B 212 16.506 57.235 75.889 1.00 74.54 6 ATOM 3381 C GLN B 212 16.506 57.235 75.889 1.00 74.54 6 ATOM 3383 C ALB B 211 17.863 59.399 68.870 1.00 74.54 6 ATOM 3381 C GLN B 212 16.506 57.235 75.889 1.00 74.54 6 ATOM 3383 C ALB B 212 16.506 57.235 75.889 1.00 74.54 6 ATOM 3381 C GLN B 212 16.506 57.235 75.889 1.00 74.54 6 ATOM 3381 C GLN B 212 16.506 57.235 75.889 1.00 74.54 6 ATOM 3383 C ALB B 213 16.840 57.645 70.998 1.00 66.70 6 ATOM 3380 C GLN B 212 16.506 57.525 75.889 1.00 58.18 7 ATOM 3381 C GLN B 212 16.506 57.525 77.181 1.00 55.99 6 ATOM 3380 C C LALB 213 16.880 59.866 68.299 1.00 56.71 8 ATOM 3380 C C LALB 213 16.880 59.866 68.299 1.00 56.71 8 AT	ATOM	3352	N	ALA B	209	21.249	57.625	74.865	1.00 65.53	7
ATOM 3355 CB ALA B 209 21.552 60.033 74.735 1.00 16.71 67.72 67.70 3355 C ALA B 209 19.319 58.605 72.431 1.00 67.52 8 ATOM 3356 C ALA B 209 19.319 58.605 72.431 1.00 67.52 8 ATOM 3357 N LEU B 210 21.543 58.756 72.123 1.00 73.45 6 ATOM 3358 CA LEU B 210 21.443 58.668 70.662 1.00 73.45 6 ATOM 3358 CB LEU B 210 22.443 58.668 70.662 1.00 73.45 6 ATOM 3350 CG LEU B 210 22.677 58.207 70.051 1.00 36.69 6 ATOM 3360 CG LEU B 210 22.266 58.832 67.646 1.00 36.19 6 ATOM 3361 CD1 LEU B 210 22.266 58.832 67.646 1.00 36.19 6 ATOM 3362 CD2 LEU B 210 24.030 57.169 68.179 1.00 37.72 6 ATOM 3362 CD2 LEU B 210 20.312 57.752 70.178 1.00 73.95 8 ATOM 3363 C LEU B 210 19.323 58.223 69.611 1.00 73.95 8 ATOM 3363 C LEU B 210 19.323 58.223 69.611 1.00 73.95 8 ATOM 3366 CA ASN B 211 19.769 54.552 70.016 1.00 95.72 7 ATOM 3366 CA ASN B 211 19.789 54.099 70.646 1.00 47.61 6 ATOM 3365 N ASN B 211 19.789 54.099 70.646 1.00 47.61 6 ATOM 3368 CG ASN B 211 19.789 54.099 70.646 1.00 47.61 6 ATOM 3370 ND2 ASN B 211 20.941 53.388 69.969 1.00 49.90 6 ATOM 3370 ND2 ASN B 211 20.955 53.156 70.711 1.00 49.80 7 ATOM 3370 ND2 ASN B 211 12.20.25 53.156 70.711 1.00 49.80 7 ATOM 3371 C ASN B 211 19.789 55.935 69.524 1.00 94.05 6 ATOM 3373 ND2 ASN B 211 17.183 55.935 69.524 1.00 94.05 6 ATOM 3373 N GLN B 212 17.883 56.19 71.666 1.00 47.49 6 ATOM 3373 N GLN B 212 17.883 56.19 71.666 1.00 47.49 6 ATOM 3373 N GLN B 212 17.883 56.943 73.643 1.00 74.54 6 ATOM 3373 N GLN B 212 17.883 56.943 73.434 1.00 74.54 6 ATOM 3375 CG GLN B 212 17.863 56.19 71.666 1.00 48.75 7 ATOM 3375 CG GLN B 212 15.407 57.083 74.394 1.00 94.05 6 ATOM 3378 N NEZ GLN B 212 15.407 57.083 74.394 1.00 94.05 6 ATOM 3378 N NEZ GLN B 212 15.407 57.083 74.394 1.00 94.05 6 ATOM 3378 N NEZ GLN B 212 15.407 57.083 74.394 1.00 76.74 6 ATOM 3379 N NEZ GLN B 212 15.407 57.083 74.394 1.00 76.74 6 ATOM 3380 CG GLN B 212 15.407 57.083 74.394 1.00 76.74 6 ATOM 3380 CG GLN B 212 15.407 57.858 66.19 71.00 56.570 7 ATOM 3380 CG GLN B 212 15.407 57.858 66.19 71.00 56.570 7 ATOM 3380 CG GLN B 212 15.407 57.508										
ATOM 3356 C ALA B 209 19.3453 58.740 72.891 1.00 66.92 6 ATOM 3357 N LEU B 210 21.543 58.756 72.431 1.00 67.52 8 ATOM 3358 C ALEU B 210 21.543 58.756 72.431 1.00 73.45 7 ATOM 3358 C ALEU B 210 21.543 58.668 70.662 1.00 73.45 6 ATOM 3359 CB LEU B 210 21.443 58.668 70.662 1.00 73.45 6 ATOM 3360 CG LEU B 210 22.693 57.718 68.591 1.00 36.689 6 ATOM 3361 CDL LEU B 210 22.665 58.832 67.646 1.00 36.689 6 ATOM 3361 CDL LEU B 210 22.665 58.832 67.646 1.00 36.699 6 ATOM 3362 CD2 LEU B 210 24.030 57.169 68.179 1.00 37.72 6 ATOM 3363 C LEU B 210 24.030 57.169 68.179 1.00 37.72 6 ATOM 3363 C LEU B 210 24.030 57.169 68.179 1.00 37.72 6 ATOM 3365 N ASN B 211 20.464 56.450 70.414 1.00 73.49 8 ATOM 3365 N ASN B 211 19.475 55.452 70.005 1.00 94.91 6 ATOM 3365 N ASN B 211 19.475 55.452 70.005 1.00 94.91 6 ATOM 3367 CB ASN B 211 19.475 55.452 70.005 1.00 94.91 6 ATOM 3367 N DASN B 211 20.855 53.047 68.789 1.00 49.54 8 ATOM 3370 NDZ ASN B 211 20.855 53.047 68.782 1.00 49.54 8 ATOM 3373 N GLAN B 211 18.065 55.862 70.378 1.00 94.05 6 ATOM 3372 C ASN B 211 18.065 55.862 70.378 1.00 94.05 6 ATOM 3373 N GLAN B 212 17.863 56.199 71.666 1.00 48.75 7 ATOM 3373 C ASN B 211 18.065 55.862 70.378 1.00 94.05 6 ATOM 3373 N GLAN B 212 17.863 56.199 71.666 1.00 48.75 7 ATOM 3373 C G GLN B 212 16.566 56.525 72.181 1.00 49.80 7 ATOM 3373 C G GLN B 212 17.863 56.199 71.666 1.00 48.75 7 ATOM 3373 C G GLN B 212 16.566 56.525 72.181 1.00 49.80 7 ATOM 3373 C G GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 94.05 6 ATOM 3373 N GLN B 212 16.566 56.525 72.381 1.00 95.727 7 ATOM 3380 C G GLN B 212 16.566 56.525 72.381 1.00 95.727										
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ATOM 3359 CB LEU B 210										
ATOM 3360 CG LEU B 210										
ATOM 3360 CG LEU B 210			СВ							
ATOM 3361 CD1 LEU B 210	ATOM	3360	CG	LEU B	210	22.693				
ATOM 3363 C LEU B 210	ATOM	3361	CD1	LEU B	210	22.266	58.832	67.646	1.00 36.19	
ATOM 3366 CA ASN B 211 20.464 56.450 70.414 1.00 73.49 8 ATOM 3366 CA ASN B 211 19.785 55.452 70.005 1.00 94.91 6 ATOM 3367 CB ASN B 211 19.789 54.099 70.646 1.00 47.61 6 ATOM 3368 CG ASN B 211 20.941 53.388 69.969 1.00 48.99 6 ATOM 3369 OD1 ASN B 211 20.855 53.047 68.782 1.00 49.54 8 ATOM 3370 ND2 ASN B 211 22.025 53.156 70.711 1.00 49.56 6 ATOM 3371 C ASN B 211 18.065 55.862 70.378 1.00 94.05 6 ATOM 3373 N GLN B 211 17.183 55.935 69.524 1.00 94.05 6 ATOM 3373 N GLN B 212 17.863 56.119 71.666 1.00 48.79 7 ATOM 3375 CB GLN B 212 16.566 56.525 72.181 1.00 44.749 6 ATOM 3376 CG GLN B 212 16.712 56.943 73.643 1.00 74.54 6 ATOM 3377 CD GLN B 212 15.620 57.235 75.889 1.00 74.54 6 ATOM 3378 OEI GLN B 212 15.620 57.235 75.889 1.00 78.20 6 ATOM 3378 OEI GLN B 212 15.620 57.235 75.889 1.00 78.20 6 ATOM 3380 C GLN B 212 15.099 58.318 76.450 1.00 78.87 7 ATOM 3381 O GLN B 212 15.099 58.318 76.450 1.00 78.87 7 ATOM 3381 O GLN B 212 15.099 58.318 76.450 1.00 78.87 7 ATOM 3383 C ALA B 213 16.840 58.690 71.104 1.00 56.70 6 ATOM 3383 C ALA B 213 16.840 58.690 71.104 1.00 56.70 6 ATOM 3385 C ALA B 213 16.840 59.836 07.304 1.00 56.70 6 ATOM 3386 C ALA B 213 16.840 59.836 07.304 1.00 56.70 6 ATOM 3387 O VAL B 214 17.914 56.784 66.529 1.00 56.71 8 ATOM 3380 C VAL B 214 17.914 56.784 66.529 1.00 55.99 6 ATOM 3381 C VAL B 214 17.914 56.784 66.758 1.00 39.20 6 ATOM 3382 C VAL B 214 17.914 56.784 66.758 1.00 39.20 6 ATOM 3389 C VAL B 214 17.914 56.784 66.758 1.00 39.20 6 ATOM 3390 CGI VAL B 214 17.914 56.784 66.758 1.00 39.20 6 ATOM 3391 C VAL B 214 17.914 56.784 66.792 1.00 56.71 8 ATOM 3393 C C VAL B 214 17.914 56.784 66.792 1.00 35.62 7 ATOM 3399 N ILE B 216 13.641 59.793 67.015 1.00 55.99 6 ATOM 3399 CGI VAL B 214 17.914 56.794 66.881 1.00 37.58 7 ATOM 3390 CGI VAL B 214 17.914 56.794 66.792 1.00 35.62 7 ATOM 3399 N ILE B 216 13.641 56.909 72.24 1.00 35.62 7 ATOM 3399 N ILE B 216 13.641 56.909 72.24 1.00 35.62 7 ATOM 3399 N ILE B 216 13.061 58.568 68.873 1.00 37.58 7 ATOM 3390 CGI VAL B 214 17.919 70.298 1.00 59.918 6 ATOM 3390 CG	MOTA	3362	CD2	LEU B	210	24.030	57.169	68.179	1.00 37.72	6
ATOM 3366 CA ASN B 211 19.475 55.452 70.005 1.00 94.91 6 ATOM 3367 CB ASN B 211 19.475 55.452 70.005 1.00 94.91 6 ATOM 3368 CG ASN B 211 19.789 54.099 70.646 1.00 47.61 6 ATOM 3369 ODI ASN B 211 20.941 53.388 69.969 1.00 48.99 6 ATOM 3370 ND2 ASN B 211 22.025 53.156 70.711 1.00 49.80 7 ATOM 3371 C ASN B 211 18.065 55.862 70.378 1.00 94.10 8 ATOM 3372 O ASN B 211 18.065 55.862 70.378 1.00 94.10 8 ATOM 3373 N GLN B 212 17.863 56.119 71.666 1.00 47.49 8 ATOM 3374 CA GLN B 212 16.566 56.525 72.181 1.00 44.05 6 ATOM 3375 CB GLN B 212 16.566 56.525 72.181 1.00 74.54 6 ATOM 3376 CG GLN B 212 16.566 56.525 72.181 1.00 74.54 6 ATOM 3377 CD GLN B 212 15.407 57.083 74.394 1.00 74.54 6 ATOM 3378 OEI GLN B 212 16.205 77.235 75.889 1.00 78.20 6 ATOM 3378 OEI GLN B 212 15.620 57.235 75.889 1.00 78.20 6 ATOM 3378 OEI GLN B 212 16.241 56.384 76.535 1.00 79.21 8 ATOM 3380 C GLN B 212 16.241 56.384 76.535 1.00 79.21 8 ATOM 3381 O GLN B 212 16.840 58.341 70.568 1.00 46.38 6 ATOM 3382 N ALA B 213 16.840 58.690 71.104 1.00 58.18 7 ATOM 3383 CA ALA B 213 16.840 58.690 71.004 1.00 56.70 6 ATOM 3386 C ALA B 213 15.255 59.886 68.229 1.00 56.71 8 ATOM 3387 N VAL B 214 17.020 58.478 68.380 1.00 55.59 6 ATOM 3389 CB VAL B 214 17.914 56.846 66.725 1.00 35.99 6 ATOM 3389 CB VAL B 214 17.915 56.847 66.791 1.00 40.50 6 ATOM 3389 CB VAL B 214 17.914 56.846 66.725 1.00 39.20 6 ATOM 3390 CG VAL B 214 17.915 56.725 77.258 65.748 1.00 34.92 6 ATOM 3390 CG VAL B 214 17.914 56.846 66.758 1.00 39.20 6 ATOM 3391 CG2 VAL B 214 17.915 56.755 69.237 1.00 13.87 6 ATOM 3399 N ILE B 216 13.641 56.736 69.937 1.00 13.87 6 ATOM 3399 N ILE B 216 13.641 56.736 69.937 1.00 35.53 8 ATOM 3399 N ILE B 216 12.295 97.851 68.801 1.00 35.53 8 ATOM 3399 N ILE B 216 12.295 97.851 68.801 1.00 35.53 8 ATOM 3399 N ILE B 216 12.295 97.851 68.801 1.00 35.53 8 ATOM 3300 CG ILE B 216 12.995 97.00 69.431 1.00 35.53 8 ATOM 3300 CG ILE B 216 12.995 97.851 69.947 1.00 55.58 6 ATOM 3400 CA ILE B 216 12.995 97.851 69.947 1.00 55.58 6 ATOM 3401 CB ILE B 216 12.995 60.881 67.482 1.00 58.	MOTA	3363	С	LEU B					1.00 73.95	
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ATOM 3394 N ALA B 215 14.963 56.955 67.972 1.00 35.62 7 ATOM 3395 CA ALA B 215 13.641 56.403 68.008 1.00 34.92 6 ATOM 3396 CB ALA B 215 13.494 55.553 69.237 1.00 13.87 6 ATOM 3397 C ALA B 215 12.692 57.581 68.064 1.00 34.79 6 ATOM 3398 O ALA B 215 11.673 57.605 67.394 1.00 35.53 8 ATOM 3399 N ILE B 216 13.051 58.568 68.873 1.00 37.58 7 ATOM 3400 CA ILE B 216 12.229 59.760 69.043 1.00 38.65 6 ATOM 3401 CB ILE B 216 12.945 60.781 69.947 1.00 58.19 6 ATOM 3402 CG2 ILE B 216 11.991 61.919 70.298 1.00 59.13 6 ATOM 3403 CG1 ILE B 216 13.441 60.079 71.212 1.00 57.58 6 ATOM 3404 CD1 ILE B 216 14.218 60.959 72.142 1.00 58.61 6 ATOM 3405 C ILE B 216 11.891 60.414 67.699 1.00 39.48 6 ATOM 3406 O ILE B 216 10.762 60.881 67.482 1.00 38.93	MOTA	3392	С	VAL B	214	15.519	57.359	66.847	1.00 55.21	6
ATOM 3395 CA ALA B 215 13.641 56.403 68.008 1.00 34.92 6 ATOM 3396 CB ALA B 215 13.494 55.553 69.237 1.00 13.87 6 ATOM 3397 C ALA B 215 12.692 57.581 68.064 1.00 34.79 6 ATOM 3398 O ALA B 215 11.673 57.605 67.394 1.00 35.53 8 ATOM 3399 N ILE B 216 13.051 58.568 68.873 1.00 37.58 7 ATOM 3400 CA ILE B 216 12.229 59.760 69.043 1.00 38.65 6 ATOM 3401 CB ILE B 216 12.945 60.781 69.947 1.00 58.19 6 ATOM 3402 CG2 ILE B 216 11.991 61.919 70.298 1.00 59.13 6 ATOM 3403 CG1 ILE B 216 13.441 60.079 71.212 1.00 57.58 6 ATOM 3404 CD1 ILE B 216 14.218 60.959 72.142 1.00 58.61 6 ATOM 3405 C ILE B 216 11.891 60.414 67.699 1.00 39.48 6 ATOM 3406 O ILE B 216 10.762 60.881 67.482 1.00 38.93 8										
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ATOM 3406 O ILE B 216 10.762 60.881 67.482 1.00 38.93 8	ATOM		CD1							6
ATOM 3407 N LEU B 217 12.877 60.446 66.806 1.00 55.28 7										
	ATOM	3407	IA	LEU B	Z	12.877	60.446	66.806	1.00 55.28	7

ATOM 3453 CB ASN B 222 5.176 57.136 62.284 1.00106.39 ATOM 3454 CG ASN B 222 6.127 55.993 62.568 1.00108.39 ATOM 3455 OD1 ASN B 222 6.008 55.318 63.591 1.00109.32 ATOM 3456 ND2 ASN B 222 7.072 55.761 61.660 1.00108.36 ATOM 3457 C ASN B 222 4.411 58.842 60.642 1.00 80.66 ATOM 3458 O ASN B 222 3.870 58.734 59.542 1.00 81.98 ATOM 3459 N TYR B 223 4.057 59.744 61.555 1.00 63.38 ATOM 3460 CA TYR B 223 2.974 60.706 61.371 1.00 63.46 ATOM 3461 CB TYR B 223 3.332 61.991 62.111 1.00 60.86 ATOM 3462 CG TYR B 223 3.569 61.736 63.585 1.00 60.10 ATOM 3463 CD1 TYR B 223 4.374 62.577 64.344 1.00 60.05	ATOM 3440 NE2 HIS B 220 7.782 63.420 68.489 1.00111.13 ATOM 3441 C HIS B 220 7.343 61.148 63.102 1.00 65.62 ATOM 3442 O HIS B 220 6.311 61.534 62.561 1.00 65.51 ATOM 3443 N LEU B 221 8.370 60.640 62.429 1.00 64.25 ATOM 3444 CA LEU B 221 8.337 60.490 60.983 1.00 62.89 ATOM 3445 CB LEU B 221 9.520 59.655 60.508 1.00 40.10 ATOM 3446 CG LEU B 221 10.733 60.492 60.127 1.00 39.46 ATOM 3447 CD1 LEU B 221 12.014 59.665 60.231 1.00 38.63 ATOM 3448 CD2 LEU B 221 10.499 61.061 58.725 1.00 40.35 ATOM 3449 C LEU B 221 7.057 59.800 60.598 1.00 62.98 ATOM 3450 O LEU B 221 6.352 60.252 59.706 1.00 63.03 ATOM 3451 N ASN B 222 6.767 58.698 61.281 1.00 80.11 ATOM 3452 CA ASN B 222 5.561 57.927 61.033 1.00 80.71	ATOM 3431 C GLU B 219 7.556 58.819 64.977 1.00 78.30 ATOM 3432 O GLU B 219 6.477 58.659 64.396 1.00 78.84 ATOM 3433 N HIS B 220 8.121 60.014 65.138 1.00 66.20 ATOM 3434 CA HIS B 220 7.504 61.227 64.609 1.00 66.15 ATOM 3435 CB HIS B 220 8.338 62.448 64.994 1.00105.59 ATOM 3436 CG HIS B 220 8.015 62.991 66.349 1.00108.40 ATOM 3437 CD2 HIS B 220 8.405 62.596 67.584 1.00109.60 ATOM 3438 ND1 HIS B 220 7.157 64.054 66.540 1.00109.83 ATOM 3439 CE1 HIS B 220 7.034 64.291 67.834 1.00110.63	ATOM 3418 CG LYS B 218 13.069 55.534 63.410 1.00 61.97 ATOM 3419 CD LYS B 218 13.516 54.221 64.104 1.00 64.17 ATOM 3420 CE LYS B 218 14.311 53.257 63.198 1.00 65.47 ATOM 3421 NZ LYS B 218 14.927 52.116 63.964 1.00 65.03 ATOM 3422 C LYS B 218 10.191 57.722 64.026 1.00 81.14 ATOM 3423 O LYS B 218 9.468 57.840 63.040 1.00 81.66 ATOM 3424 N GLU B 219 9.720 57.609 65.268 1.00 75.84 ATOM 3425 CA GLU B 219 8.295 57.626 65.579 1.00 77.32 ATOM 3426 CB GLU B 219 8.078 57.631 67.092 1.00140.14 ATOM 3427 CG GLU B 219 8.078 57.631 67.092 1.00140.14 ATOM 3428 CD GLU B 219 6.668 58.061 67.478 1.00143.68 ATOM 3429 OE1 GLU B 219 7.328 58.769 69.650 1.00146.59 ATOM 3430 OE2 GLU B 219 5.423 57.679 69.462 1.00147.42	ATOM 3408 CA LEU B 217 12.700 61.025 65.481 1.00 56.43 ATOM 3409 CB LEU B 217 14.066 61.305 64.855 1.00 34.79 ATOM 3410 CG LEU B 217 14.067 61.729 63.387 1.00 34.72 ATOM 3411 CD1 LEU B 217 13.484 63.118 63.280 1.00 33.77 ATOM 3412 CD2 LEU B 217 15.478 61.688 62.826 1.00 33.56 ATOM 3413 C LEU B 217 11.915 60.041 64.606 1.00 58.48 ATOM 3414 O LEU B 217 10.955 60.420 63.931 1.00 58.68 ATOM 3415 N LYS B 218 12.340 58.775 64.635 1.00 79.73 ATOM 3416 CA LYS B 218 12.340 58.775 64.635 1.00 80.04 ATOM 3417 CB LYS B 218 12.239 56.347 64.384 1.00 60.98
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ATOM	3464	CE1	TYR B 223		4.605	(2.30)	CF	1 00 50 40	_
ATOM	3465	CD2			2.993	62.326 60.637	65.696 64.217	1.00 59.49 1.00 60.08	6 6
ATOM	3466	CE2			3.214	60.379	65.560	1.00 60.21	6
MOTA	3467	CZ	TYR B 223		4.022	61.224	66.297	1.00 59.74	6
ATOM	3468	OH	TYR B 223		4.248	60.951	67.631	1.00 59.35	8
ATOM ATOM	3469	C	TYR B 223		2.646	60.987	59.913	1.00 64.43	6
ATOM	3470 3471	O N	TYR B 223 PHE B 224		1.480 3.678	61.164	59.558	1.00 64.54	8
ATOM	3472	CA	PHE B 224		3.502	61.022 61.238	59.074 57.645	1.00 73.75 1.00 74.89	7 6
ATOM	3473	CB	PHE B 224		4.815	61.699	56.983	1.00 74.83	6
MOTA	3474	CG	PHE B 224		5.376	62.988	57.543	1.00 87.15	6
MOTA	3475	CD1		•	6.108	62.992	58.728	1.00 87.88	6
ATOM	3476	CD2			5.171	64.197	56.885	1.00 86.49	6
MOTA MOTA	3477 3478	CE1 CE2	PHE B 224 PHE B 224		6.624 5.684	64.174 65.385	59.245	1.00 87.12	6
ATOM	3479	CZ	PHE B 224		6.410	65.373	57.398 58.578	1.00 85.69 1.00 86.13	6 6
ATOM	3480	C	PHE B 224		3.061	59.897	57.053	1.00 76.36	6
MOTA	3481	0	PHE B 224		3.744	59.311	56.211	1.00 76.67	8
ATOM	3482	N	ALA B 225		1.916	59.413	57.523	1.00 80.05	7
ATOM ATOM	3483 3484	CA CB	ALA B 225 ALA B 225		1.360 1.234	58.149 57.174	57.059	1.00 81.59	6
ATOM	3485	C	ALA B 225		-0.001	58.365	58.225 56.407	1.00 74.53 1.00 83.07	6 6
ATOM	3486	Ö	ALA B 225		-0.103	58.491	55.188	1.00 83.49	8
MOTA	3487	N	ASN B 226		-1.049	58.410	57.220	1.00 69.91	7
ATOM	3488	CA	ASN B 226		-2.390	58.608	56.689	1.00 72.09	6
ATOM ATOM	3489 3490	CB CG	ASN B 226 ASN B 226		-3.405 -3.139	57.834	57.525	1.00 91.37	6
ATOM	3491	OD1	ASN B 226		-3.139	56.343 55.690	57.519 56.476	1.00 92.71 1.00 91.90	6 8
ATOM	3492	ND2	ASN B 226		-2.828	55.796	58.687	1.00 91.90	7
MOTA	3493	С	ASN B 226		-2.734	60.088	56.670	1.00 73.36	6
MOTA	3494	0	ASN B 226		-2.610	60.771	57.683	1.00 74.07	8
ATOM	3495 3496	N	PRO B 227		-3.157	60.602	55.502	1.00115.46	7
ATOM ATOM	3490	CD CA	PRO B 227 PRO B 227		-2.811 -3.522	59.980 62.013	54.207 55.317	1.00 39.04 1.00116.36	6 6
ATOM	3498	CB	PRO B 227		-2.727	62.390	54.077	1.00110.30	6
MOTA	3499	CG	PRO B 227		-2.919	61.146	53.223	1.00 39.44	6
ATOM	3500	C	PRO B 227		-5.008	62.361	55.141	1.00118.18	6
ATOM ATOM	3501 3502	O N	PRO B 227 GLU B 228		-5.859	61.494	54.963	1.00118.42	8
ATOM	3502	CA	GLU B 228		-5.294 -6.636	63.656 64.181	55.199 54.991	1.00106.47 1.00108.65	7 6
ATOM	3504	CB	GLU B 228		-7.302	64.555	56.319	1.00108.03	6
ATOM	3505	CG	GLU B 228		-8.736	65.043	56.146	1.00177.01	6
MOTA	3506	CD	GLU B 228		-9.474	65.203	57.459	1.00179.13	6
MOTA	3507	OE1			-9.021	65.999	58.309	1.00181.08	8
ATOM ATOM	3508 3509	OE2 C	GLU B 228 GLU B 228		-10.514 -6.406	64.534 65.425	57.635 54.128	1.00180.01	8
ATOM	3510	0	GLU B 228		-6.091	66.501	54.128	1.00110.13 1.00110.94	6 8
ATOM	3511	N	ALA B 229		-6.561	65.265	52.818	1.00 60.59	7
ATOM	3512	CA	ALA B 229		-6.311	66.344	51.876	1.00 61.24	6
ATOM	3513	CB	ALA B 229		-5.424	65.825	50.764	1.00 14.58	6
ATOM ATOM	3514 3515	C 0	ALA B 229 ALA B 229		-7.527 -8.670	67.025 66.677	51.266 51.551	1.00 62.40 1.00 62.49	6 8
ATOM	3516	N	SER B 230		-7.236	68.005	50.413	1.00 82.49	7
MOTA	3517	CA	SER B 230		-8.231	68.789	49.690	1.00 83.43	6
MOTA	3518	CB	SER B 230		-8.273	70.220	50.237	1.00134.32	6
ATOM	3519	OG	SER B 230		-8.505	70.230	51.635	1.00135.82	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	35223456789012345678901233456789012335555555555566666780 35352234567890123345678901233555555555555566666780 3535555555555555555566666780	C O N CA CB OC O N CA CB CC	ARG (ARG (ARG (ARG (ARG (ARG (ARG (ARG (3311111122222333333334444444445555555555	13.551 15.743 16.053 16.862 16.116 15.633 15.898 14.942	68.782 68.774 68.232 68.948 70.141 70.526 70.803 95.868 97.139 96.421 95.898 96.633 97.765 100.2155 100.307 101.565 101.1565 102.522 102.188 103.444 103.444 103.622 104.482 105.225 106.633 105.922 106.635 106.635 106.635 106.635 106.635 106.635 106.635 106.946 106.946 106.946 106.946 106.936 106.937 106.946 106.946 106.946 106.937 106.946 106.937 106.946 106.937 106.946 106.937 107.937 107.9	48.234 47.291 45.297 45.867 45.338 45.323 45.323 45.323 31.323	1.00 84.59 1.00 84.28 1.00152.80 1.00154.78 1.00208.87 1.00208.87 1.00155.53 1.00155.94 1.00208.87 1.00125.97 1.00 93.91 1.00 93.91 1.00 94.38 1.00 94.22 1.00119.26 1.00117.83 1.00 58.36 1.00 58.36 1.00 56.18 1.00117.61 1.00 25.32 1.00 24.08 1.00117.61 1.00 25.32 1.00 24.08 1.00117.65 1.00 25.32 1.00 24.08 1.00117.65 1.00 25.32 1.00 24.08 1.00117.65 1.00 25.32 1.00 24.08 1.00117.65 1.00 25.32 1.00 24.08 1.00117.65 1.00 25.32 1.00 24.08 1.00117.65 1.00 25.32 1.00 24.08 1.00114.29 1.00116.05 1.00117.65 1.00 25.32 1.00 24.08 1.00114.29 1.00114.29 1.0014.29 1.0014.29 1.00 40.10 1.00 86.67 1.00 88.03 1.00 90.34 1.00 90.34 1.00 90.51 1.00 42.57 1.00 42.96 1.00 74.97 1.00 74.97 1.00 74.97 1.00 74.97	687668688668767666668766666768766667677687666666
ATOM	3564 3565	CG	PHE (C 6	16.116	105.090	37.642	1.00 74.47	6
ATOM	3567	CD2	PHE (C 6	15.898	105.171	39.013	1.00 74.02	6
ATOM	3569	CE2	PHE (C 6	15.210	104.172	39.694	1.00 72.21 1.00 72.32	6
ATOM ATOM	3570 3571	CZ C	PHE (C 6	14.732 16.950	107.919	39.010 35.121	1.00 44.27	6
ATOM ATOM	3572 3573	N	PHE (17.774 16.817	107.508	34.310 35.408	1.00 44.21 1.00 93.24	8 7
MOTA	3574	CA	GLY (C 7	17.711	110.177	34.750	1.00 95.08 1.00 95.99	6
MOTA	3575	С	GLY (C 7	1/.441	111.682	34.660	1.00 95.99	О

ATOM	3576	0	GLY C	7	16.818 112.268 35.54	3 1.00 95.32 8
ATOM	3577	N	ARG C	8	17.956 112.298 33.58	3 1.00 71.19 7
MOTA	3578	CA	ARG C	8	17.813 113.738 33.28	
MOTA	3579	CB	ARG C	8	18.364 114.580 34.43	
MOTA	3580	CG	ARG C	8	17.325 115.062 35.41	
MOTA	3581	CD	ARG C	8	17.948 116.047 36.38	
MOTA	3582	NE	ARG C	8	16.997 116.518 37.38	
MOTA	3583	CZ	ARG C	8	17.309 117.340 38.37	
MOTA	3584	NH1	ARG C	8	18.553 117.786 38.50	
ATOM	3585	NH2	ARG C	8	16.377 117.713 39.24	
MOTA	3586	C	ARG C	8	18.469 114.214 31.95	
ATOM	3587	0	ARG C	8	19.507 113.707 31.54	
MOTA	3588	N	ILE C	9	17.844 115.204 31.31	
MOTA	3589	CA	ILE C	9	18.289 115.817 30.05	
MOTA	3590	CB	ILE C	9	19.471 116.816 30.28	
ATOM	3591 3592	CG2 CG1	ILE C	9 9	19.860 117.489 28.97 19.043 117.954 31.22	
MOTA ATOM	3592	CD1	ILE C	9	19.043 117.954 31.22 18.806 117.547 32.65	
ATOM	3594	CDI	ILE C	9	18.652 114.882 28.88	
ATOM	3595	0	ILE C	9	17.787 114.176 28.37	
ATOM	3596	N	ARG C	10	19.923 114.907 28.47	
MOTA	3597	CA	ARG C	10	20.469 114.115 27.36	
MOTA	3598	CB	ARG C	10	19.799 112.738 27.27	
ATOM	3599	CG	ARG C	10	20.491 111.780 26.31	
MOTA	3600	CD	ARG C	10	19.809 110.423 26.28	
ATOM	3601	NE	ARG C	10	20.567 109.457 25.49	
MOTA	3602	CZ	ARG C	10	20.194 108.196 25.30	
MOTA	3603	NH1	ARG C	10	19.067 107.745 25.83	
MOTA	3604	NH2	ARG C	10	20.950 107.385 24.57	5 1.00186.22 7
MOTA	3605	С	ARG C	10	20.281 114.875 26.04	5 1.00 91.37 6
MOTA	3606	0	ARG C	10	19.738 114.343 25.07	
ATOM	3607	N	GLU C	11	20.758 116.119 26.02	
MOTA	3608	CA	GLU C	11	20.654 117.028 24.88	
MOTA	3609	CB	GLU C	11	21.407 118.309 25.20	
ATOM	3610	CG	GLU C	11	21.511 119.279 24.05	
ATOM	3611	CD OF	GLU C	11	22.173 120.560 24.48	
ATOM	3612	OE1	GLU C	11	23.250 120.472 25.10	
ATOM	3613	OE2	GLU C	11	21.624 121.651 24.22	
ATOM ATOM	3614 3615	C O	GLU C	11 11	21.087 116.547 23.50 20.621 117.077 22.50	
ATOM	3616	N	VAL C	12	21.980 115.563 23.45	
ATOM	3617	CA	VAL C	12	22.465 115.037 22.17	
ATOM	3618	CB	VAL C	12	23.871 115.645 21.82	
ATOM	3619		VAL C	12	24.359 115.158 20.48	
MOTA	3620	CG2	VAL C	12	23.782 117.160 21.80	
ATOM	3621	C	VAL C	12	22.525 113.498 22.18	
MOTA	3622	Ō	VAL C	12	21.596 112.838 22.65	
MOTA	3623	N	ILE C	13	23.614 112.945 21.65	
MOTA	3624	CA	ILE C	13	23.830 111.502 21.56	
MOTA	3625	CB	ILE C	13	23.440 110.967 20.15	
MOTA	3626	CG2	ILE C	13	24.586 110.181 19.52	
MOTA	3627	CG1	ILE C	13	22.197 110.086 20.24	
MOTA	3628	CD1	ILE C	13	20.964 110.830 20.70	
MOTA	3629	C	ILE C	13	25.313 111.220 21.81	
MOTA	3630	0	ILE C	13	26.152 112.109 21.63	
MOTA	3631	N	PRO C	14	25.658 109.979 22.22	5 1.00200.26 7
				,		

ATOM 3675 N GLU C 20 34.503 105.678 15.314 1.00 36.78 7	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 3334567890123456789012345644567890123345666666667733333333333333333333333333$	CD CA CB CG C O N CD CB CG C O N CA CB CG C O N CD CB CG C O N CB CG C O N CB CG C C O N CB CGC C C C C C C C C C C C C C C C C	PRO CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	14 14 14 14 15 15 15 15 15 15 16 16 16 16 16 17 17 17 17 17 17 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	24.784 108.804 22.390 1.00143.05 6 27.055 109.613 22.492 1.00200.29 6 26.958 108.144 22.909 1.00143.08 6 27.968 109.827 21.289 1.00198.70 6 29.189 109.735 21.406 1.00199.16 8 27.362 110.104 20.137 1.00 90.84 7 28.091 110.369 18.901 1.00 74.19 6 29.307 111.242 19.178 1.00 74.19 6 30.246 111.448 17.993 1.00 73.88 6 29.550 112.193 16.853 1.00 73.28 6 28.551 109.146 18.135 1.00 73.28 6 28.551 109.146 18.135 1.00 73.46 7 29.665 108.659 18.333 1.00 74.67 7 26.444 109.243 16.749 1.00201.81 6 26.31 107.753 15.567 1.00201.48 <
	ATOM ATOM ATOM ATOM ATOM	3669 3670 3671 3672 3673	CA CB OG1 CG2 C	THR C THR C THR C THR C THR C	19 19 19 19	34.236 103.387 16.017 1.00 18.27 6 33.908 102.070 15.315 1.00 40.27 6 32.747 102.248 14.494 1.00 40.82 8 33.669 100.974 16.318 1.00 40.29 6 34.504 104.411 14.925 1.00 17.52 6
0.000	MOTA MOTA	3686 3687	CB CG2	ILE C	21 21	39.008 106.782 16.864 1.00 70.71 6 40.388 107.421 16.972 1.00 70.79 6

ATOM ATOM ATOM ATOM ATOM ATOM	3688 3689 3690 3691 3692 3693	CG1 CD1 C O N CA	ILE C ILE C ILE C GLN C GLN C	21 21 21 21 22 22	38.240 107.095 18.144 1.00 72.41 6 38.119 108.584 18.428 1.00 73.92 6 38.911 106.808 14.402 1.00 36.07 6 39.725 107.473 13.766 1.00 35.93 8 38.513 105.580 14.067 1.00 69.90 7 38.978 104.882 12.874 1.00 71.08 6
ATOM ATOM	3694 3695	CB CG	GLN C GLN C	22 22	39.300 103.429 13.206 1.00 51.83 6 40.499 103.265 14.124 1.00 51.01 6
ATOM	3696	CD	GLN C	22	40.953 101.825 14.232 1.00 50.49 6
MOTA MOTA	3697 3698	OE1 NE2	GLN C GLN C	22 22	40.187 100.959 14.651 1.00 51.17 8 42.202 101.561 13.854 1.00 49.03 7
MOTA	3699	C	GLN C	22	37.827 104.958 11.880 1.00 72.24 6
MOTA	3700 3701	O N	GLN C VAL C	22 23	37.053 105.910 11.926 1.00 72.58 8 37.698 103.979 10.989 1.00 54.37 7
ATOM ATOM	3701	CA	VAL C	23	36.595 104.006 10.031 1.00 55.27 6
MOTA	3703	СВ	VAL C	23	35.227 103.880 10.746 1.00 45.46 6
MOTA	3704 3705	CG1 CG2	VAL C VAL C	23 23	34.080 104.090 9.748 1.00 45.92 6 35.117 102.528 11.423 1.00 46.45 6
ATOM ATOM	3705	CGZ	VAL C	23	36.588 105.323 9.270 1.00 56.22 6
ATOM	3707	0	VAL C	23	37.149 105.423 8.180 1.00 57.00 8
ATOM ATOM	3708 3709	N CA	GLU C GLU C	24 24	35.933 106.324 9.862 1.00 39.91 7 35.821 107.663 9.288 1.00 41.34 6
ATOM	3710	CB	GLU C	24	34.757 108.486 10.025 1.00111.93 6
MOTA	3711	CG	GLU C	24	33.323 108.053 9.752 1.00116.16 6
MOTA MOTA	3712 3713	CD OE1	GLU C GLU C	24 24	32.307 108.949 10.430 1.00118.56 6 32.302 110.163 10.148 1.00120.21 8
ATOM	3713	OE2	GLU C	24	31.507 108.446 11.245 1.00120.53 8
ATOM	3715	C	GLU C	24	37.150 108.376 9.365 1.00 40.87 6
ATOM ATOM	3716 3717	O N	GLU C SER C	24 25	37.227 109.589 9.188 1.00 41.48 8 38.194 107.609 9.643 1.00 48.64 7
ATOM	3718	CA	SER C	25	39.533 108.154 9.722 1.00 48.38 6
ATOM	3719	CB	SER C	25	40.287 107.593 10.930 1.00 73.51 6
ATOM ATOM	3720 3721	OG C	SER C SER C	25 25	41.621 108.083
ATOM	3722	Ö	SER C	25	40.710 108.593 7.698 1.00 47.42 8
ATOM	3723	N	TYR C	26	40.346 106.446 8.243 1.00 54.43 7 41.034 105.924 7.077 1.00 54.68 6
ATOM ATOM	3724 3725	CA CB	TYR C	26 26	41.034 105.924 7.077 1.00 54.68 6 40.858 104.404 7.005 1.00 49.43 6
ATOM	3726	CG	TYR C	26	42.038 103.677 6.406 1.00 47.66 6
ATOM ATOM	3727 3728	CD1 CE1	TYR C	26 26	43.210 103.498 7.128 1.00 46.59 6 44.299 102.857 6.572 1.00 46.24 6
ATOM	3729	CD2	TYR C	26	44.299 102.857 6.572 1.00 46.24 6 41.990 103.191 5.109 1.00 47.36 6
MOTA	3730	CE2		26	43.077 102.550 4.549 1.00 47.16 6
MOTA ATOM	3731 3732	CZ OH	TYR C	26 26	44.227 102.384 5.282 1.00 46.35 6 45.303 101.734 4.718 1.00 46.49 8
ATOM	3733	C	TYR C	26	40.480 106.572 5.814 1.00 55.37 6
MOTA	3734	0	TYR C	26	41.221 107.148 5.014 1.00 55.48 8
MOTA MOTA	3735 3736	N CA	LYS C LYS C	27 27	39.167 106.474 5.654 1.00 60.13 7 38.474 107.031 4.503 1.00 60.39 6
MOTA	3737	CB	LYS C	27	36.976 107.042 4.777 1.00 79.68 6
ATOM	3738	CG	LYS C	27	36.140 107.634 3.670 1.00 81.33 6
MOTA ATOM	3739 3740	CD CE	LYS C LYS C	27 27	34.664 107.567 4.037 1.00 83.89 6 33.765 108.050 2.909 1.00 85.68 6
MOTA	3741	NZ	LYS C	27	32.338 107.749 3.215 1.00 86.18 7
ATOM ATOM	3742 3743	C O	LYS C LYS C	27 27	38.947 108.442
AIOM	2/43	U	пто С	۷ /	J9.J00 100.7Z9 J.U/U 1.UU 0U.1/ 0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	3744 3745 3746 3747 3748 3751 3753 3755 3755 3756 3756 3756 37662 37662 37663 37663 37663 37663 3777 3777	OD2 C O	LYS CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	28 28 28 28 29 29 29 20 00 00 00 00 11 11 11 11 11 12 22 23 33 33 33 33 33 33 33 33 33 33 33	38.889 109.317 5.188 1.00 50.23 7 39.283 110.709 5.008 1.00 51.29 6 38.838 111.557 6.205 1.00208.87 6 39.517 111.276 7.499 1.00208.87 6 39.211 112.278 8.581 1.00208.87 6 40.027 112.062 9.843 1.00208.87 7 40.776 110.872 4.802 1.00 50.07 6 41.266 111.991 4.625 1.00 49.02 8 41.491 109.753 4.841 1.00 30.72 7 42.934 109.748 4.647 1.00 30.33 6 43.108 109.015 3.349 1.00 30.18 6 43.954 109.363 2.528 1.00 29.71 8 42.282 107.990 3.184 1.00 47.18 7 42.264 107.170 1.988 1.00 49.80 6 41.923 104.720 1.207 1.00 79.55 6 43.315 104.599 0.633 1.00 79.55 6 </th
ATOM	3782	CB	ASP C	33	35.594 106.892 -1.967 1.00 98.63 6
ATOM	3783	CG	ASP C	33	34.129 106.919 -2.333 1.00 99.96 6
ATOM	3786	С	ASP C	33	35.943 108.802 -3.546 1.00 76.86 6
ATOM	3789	CA	VAL C	34	36.361 111.039 -4.392 1.00108.50 6
ATOM	3790	CB		34	36.564 112.136 -3.340 1.00 44.84 6
ATOM	3791	CG1	VAL C	34	37.139 113.387 -3.962 1.00 43.21 6
ATOM	3792	CG2	VAL C	34	35.234 112.468 -2.722 1.00 46.76 6
ATOM	3793	C	VAL C	34	37.035 111.450 -5.702 1.00110.20 6
ATOM	3794	$^{\rm O}$	VAL C	34	38.263 111.561 -5.772 1.00111.68 8
ATOM	3795		PRO C	35	36.229 111.701 -6.754 1.00 66.15 7
ATOM	3796	CD	PRO C	35	34.774 111.914 -6.644 1.00152.93 6
ATOM	3797	CA	PRO C	35	36.704 112.097 -8.082 1.00 66.89 6
ATOM	3798	CB	PRO C	35	35.556 112.940 -8.609 1.00152.71 6
ATOM	3799	CG	PRO C	35	34.376 112.198 -8.084 1.00153.29 6

ATOM ATOM	3800 3801	C 0	PRO C PRO C	35 35	38.005 112.865 -7.999 1.00 67.29 6 38.047 113.955 -7.444 1.00 68.02 8
ATOM	3802	N	PRO C	36	39.090 112.284 -8.534 1.00 59.92 7
ATOM	3803	CD	PRO C	36	39.041 110.962 -9.189 1.00 60.17 6
ATOM ATOM	3804 3805	CA CB	PRO C PRO C	36 36	40.452 112.821 -8.576 1.00 61.78 6 41.056 112.088 -9.763 1.00 60.22 6
ATOM	3805	CG	PRO C	36	40.506 110.707 -9.559 1.00 60.65 6
ATOM	3807	C	PRO C	36	40.592 114.331 -8.683 1.00 62.61 6
ATOM	3808	Õ	PRO C	36	41.698 114.859 -8.596 1.00 63.80 8
MOTA	3809	N	GLU C	37	39.476 115.023 -8.877 1.00 97.57 7
ATOM	3810	CA	GLU C	37	39.491 116.475 -8.975 1.00 98.61 6
MOTA	3811	CB	GLU C	37	38.189 116.969 -9.615 1.00120.72 6
MOTA	3812	CG	GLU C	37	37.946 116.409 -11.018 1.00122.45 6
ATOM	3813	CD	GLU C	37	36.725 117.014 -11.695 1.00123.66 6
ATOM ATOM	3814 3815	OE1 OE2	GLU C GLU C	37 37	36.713 118.245 -11.915 1.00124.43 8 35.775 116.265 -12.011 1.00124.87 8
ATOM	3816	C	GLU C	37	35.775 116.265 -12.011 1.00124.87 8 39.691 117.112 -7.588 1.00 98.50 6
ATOM	3817	0	GLU C	37	40.606 117.923 -7.401 1.00 98.69 8
ATOM	3818	Ň	LYS C	38	38.856 116.740 -6.614 1.00 57.30 7
MOTA	3819	CA	LYS C	38	38.989 117.296 -5.265 1.00 57.57 6
MOTA	3820	CB	LYS C	38	37.606 117.569 -4.649 1.00126.96 6
MOTA	3821	CG	LYS C	38	36.600 116.430 -4.700 1.00128.66 6
MOTA	3822	CD	LYS C	38	35.284 116.855 -4.040 1.00129.19 6
MOTA	3823	CE	LYS C	38	34.243 115.747 -4.058 1.00129.10 6
MOTA MOTA	3824 3825	NZ C	LYS C	38 38	32.995 116.155 -3.356 1.00129.49 7 39.859 116.493 -4.284 1.00 57.41 6
ATOM	3826	0	LYS C	38	39.859 116.493 -4.284 1.00 57.41 6 40.545 115.538 -4.665 1.00 55.85 8
ATOM	3827	N	ARG C	39	39.819 116.895 -3.016 1.00 79.57 7
ATOM	3828	CA	ARG C	39	40.634 116.273 -1.977 1.00 80.58 6
ATOM	3829	СВ	ARG C	39	40.572 114.748 -2.073 1.00131.15 6
ATOM	3830	CG	ARG C	39	39.238 114.116 -1.677 1.00133.62 6
MOTA	3831	CD	ARG C	39	38.881 114.351 -0.209 1.00136.29 6
ATOM	3832	NE	ARG C	39	37.995 113.303 0.304 1.00139.40 7
ATOM	3833	CZ	ARG C	39	37.444 113.300 1.516 1.00140.64 6
ATOM ATOM	3834 3835	NH1 NH2	ARG C ARG C	39 39	37.675 114.296
ATOM	3836	C	ARG C	39	42.039 116.774 -2.289 1.00 80.41 6
ATOM	3837	Õ	ARG C	39	42.501 116.635 -3.422 1.00 80.59 8
ATOM	3838	N	GLU C	40	42.714 117.368 -1.306 1.00133.71 7
ATOM	3839	CA	GLU C	40	44.045 117.921 -1.554 1.00134.19 6
ATOM	3840	CB	GLU C	40	44.014 119.450 -1.429 1.00153.39 6
ATOM	3841	CG	GLU C	40	45.378 120.116 -1.608 1.00154.96 6
ATOM	3842	CD	GLU C	40	45.289 121.626 -1.736 1.00155.83 6
ATOM ATOM	3843 3844	OE1 OE2	GLU C	40 40	44.748 122.276 -0.820 1.00156.11 8 45.765 122.162 -2.757 1.00156.29 8
ATOM	3845	C	GLU C	$\frac{40}{40}$	45.210 117.396 -0.731 1.00133.67 6
ATOM	3846	Õ	GLU C	40	46.237 117.014 -1.292 1.00133.47 8
ATOM	3847	N	ASN C	41	45.079 117.393 0.591 1.00 48.89 7
MOTA	3848	CA	ASN C	41	46.184 116.913
MOTA	3849	СВ	ASN C	41	46.763 118.069 2.228 1.00130.74 6
ATOM	3850	CG	ASN C	41	47.479 119.084 1.364 1.00132.51 6
ATOM ATOM	3851 3852	OD1	ASN C ASN C	41 41	48.284 118.723
ATOM	3853	C	ASN C	$\frac{41}{41}$	47.199 120.362 1.393 1.00133.67 7 45.946 115.713 2.328 1.00 47.57 6
ATOM	3854	0	ASN C	41	44.923 115.032 2.263 1.00 47.19 8
MOTA	3855	Ň	VAL C	42	46.941 115.457 3.168 1.00113.68 7

ATOM 3859 CG2 VAL C 42 45.661 115.946 5.620 1.00120.00 ATOM 3860 C VAL C 42 46.834 112.990 3.443 1.00113.04 ATOM 3861 O VAL C 42 46.163 112.811 2.418 1.00112.64 ATOM 3862 N GLY C 43 47.554 112.037 4.028 1.00 97.34 ATOM 3863 CA GLY C 43 47.580 110.680 3.526 1.00 95.90 ATOM 3865 O GLY C 43 47.760 110.517 2.033 1.00 95.43 ATOM 3865 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3866 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3868 CB ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3876 CB GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 45.286 114.199 -3.226 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00135.00 ATOM 3880 NE2 GLN C 45 44.484 115.316 -2.883 1.00135.00 ATOM 3880 NE2 GLN C 45 44.484 115.316 -2.883 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3860 C VAL C 42 46.834 112.990 3.443 1.00113.04 ATOM 3861 O VAL C 42 46.163 112.811 2.418 1.00112.64 ATOM 3862 N GLY C 43 47.554 112.037 4.028 1.00 97.34 ATOM 3863 CA GLY C 43 47.580 110.680 3.526 1.00 95.90 ATOM 3865 O GLY C 43 47.760 110.517 2.033 1.00 95.43 ATOM 3866 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3866 N ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.29 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00135.13 ATOM 3879 OE1 GLN C 45 44.8677 113.053 -1.386 1.00 61.15	6
ATOM 3861 O VAL C 42 46.163 112.811 2.418 1.00112.64 ATOM 3862 N GLY C 43 47.554 112.037 4.028 1.00 97.34 ATOM 3863 CA GLY C 43 47.580 110.680 3.526 1.00 95.90 ATOM 3864 C GLY C 43 47.760 110.517 2.033 1.00 95.43 ATOM 3865 O GLY C 43 48.371 111.348 1.364 1.00 95.25 ATOM 3866 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3868 CB ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.567 107.156 0.076 1.00117.32 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3877 CG GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3878 CD GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3879 OEI GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 44.484 115.316 -2.883 1.00135.00 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00	6 6
ATOM 3862 N GLY C 43 47.554 112.037 4.028 1.00 97.34 ATOM 3863 CA GLY C 43 47.580 110.680 3.526 1.00 95.90 ATOM 3864 C GLY C 43 47.760 110.517 2.033 1.00 95.43 ATOM 3865 O GLY C 43 48.371 111.348 1.364 1.00 95.25 ATOM 3866 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3867 CA ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3877 CG GLN C 45 46.306 113.144 -2.178 1.00134.29 ATOM 3878 CD GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00135.10 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00135.00 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	8
ATOM 3863 CA GLY C 43 47.580 110.680 3.526 1.00 95.90 ATOM 3864 C GLY C 43 47.760 110.517 2.033 1.00 95.43 ATOM 3865 O GLY C 43 48.371 111.348 1.364 1.00 95.25 ATOM 3866 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3867 CA ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.306 113.144 -2.178 1.00134.29 ATOM 3878 CD GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	7
ATOM 3865 O GLY C 43 48.371 111.348 1.364 1.00 95.25 ATOM 3866 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3867 CA ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3880 NE2 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3866 N ILE C 44 47.216 109.411 1.532 1.00 98.61 ATOM 3867 CA ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3867 CA ILE C 44 47.267 109.030 0.126 1.00 97.86 ATOM 3868 CB ILE C 44 45.845 108.599 -0.360 1.00117.32 ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	8 7
ATOM 3868 CB ILE C 44	6
ATOM 3869 CG2 ILE C 44 45.725 108.710 -1.883 1.00118.51 ATOM 3870 CG1 ILE C 44 45.567 107.156 0.076 1.00117.91 ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3871 CD1 ILE C 44 45.689 106.909 1.559 1.00119.46 ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3872 C ILE C 44 47.842 110.086 -0.815 1.00 96.77 ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3873 O ILE C 44 48.942 109.927 -1.344 1.00 96.62 ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3874 N GLN C 45 47.098 111.168 -1.001 1.00 64.52 ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6 8
ATOM 3875 CA GLN C 45 47.503 112.235 -1.899 1.00 63.24 ATOM 3876 CB GLN C 45 46.306 113.144 -2.178 1.00134.09 ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	7
ATOM 3877 CG GLN C 45 46.562 114.199 -3.226 1.00134.29 ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3878 CD GLN C 45 45.286 114.852 -3.692 1.00135.13 ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3879 OE1 GLN C 45 44.484 115.316 -2.883 1.00136.75 ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6
ATOM 3880 NE2 GLN C 45 45.090 114.896 -5.003 1.00135.00 ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	6 8
ATOM 3881 C GLN C 45 48.677 113.053 -1.386 1.00 61.15	7
THOSE 2000 0 0737 0 45 40 040 400 000 0 440 4 00 00 45	6
	8
ATOM 3883 N ALA C 46 48.585 113.510 -0.143 1.00 62.10	7 6
ATOM 3884 CA ALA C 46 49.661 114.294 0.445 1.00 60.83 ATOM 3885 CB ALA C 46 49.509 114.356 1.955 1.00131.32	6
ATOM 3886 C ALA C 46 50.954 113.594 0.080 1.00 59.10	6
ATOM 3887 O ALA C 46 51.696 114.060 -0.776 1.00 58.97	8
ATOM 3888 N ALA C 47 51.191 112.452 0.716 1.00 76.48	7
ATOM 3889 CA ALA C 47 52.387 111.657 0.467 1.00 75.00 ATOM 3890 CB ALA C 47 52.158 110.221 0.947 1.00 76.20	6 6
ATOM 3890 CB ALA C 47 52.158 110.221 0.947 1.00 76.20 ATOM 3891 C ALA C 47 52.780 111.674 -1.019 1.00 74.00	6
ATOM 3892 O ALA C 47 53.961 111.600 -1.368 1.00 74.34	8
ATOM 3893 N PHE C 48 51.787 111.767 -1.895 1.00 40.16	7
ATOM 3894 CA PHE C 48 52.065 111.811 -3.313 1.00 38.41	6
ATOM 3895 CB PHE C 48 50.795 111.553 -4.122 1.00 63.46 ATOM 3896 CG PHE C 48 50.569 110.105 -4.456 1.00 63.24	6
ATOM 3896 CG PHE C 48 50.569 110.105 -4.456 1.00 63.24 ATOM 3897 CD1 PHE C 48 51.206 109.099 -3.735 1.00 62.54	6 6
ATOM 3898 CD2 PHE C 48 49.701 109.747 -5.481 1.00 63.01	6
ATOM 3899 CE1 PHE C 48 50.983 107.766 -4.031 1.00 61.74	6
ATOM 3900 CE2 PHE C 48 49.470 108.414 -5.780 1.00 61.69	6
ATOM 3901 CZ PHE C 48 50.111 107.422 -5.056 1.00 61.01 ATOM 3902 C PHE C 48 52.612 113.185 -3.618 1.00 38.13	6 6
ATOM 3902 C PHE C 48 52.612 113.185 -3.618 1.00 38.13 ATOM 3903 O PHE C 48 53.794 113.320 -3.942 1.00 39.04	8
ATOM 3904 N LYS C 49 51.756 114.202 -3.500 1.00 31.04	7
ATOM 3905 CA LYS C 49 52.164 115.574 -3.760 1.00 29.55	6
ATOM 3906 CB LYS C 49 51.042 116.541 -3.420 1.00 43.45	6
ATOM 3907 CG LYS C 49 49.942 116.566 -4.457 1.00 43.78 ATOM 3908 CD LYS C 49 48.890 117.607 -4.106 1.00 44.92	6 6
ATOM 3909 CE LYS C 49 47.993 117.952 -5.295 1.00 45.14	6
ATOM 3910 NZ LYS C 49 47.157 119.174 -5.031 1.00 45.76	7
ATOM 3911 C LYS C 49 53.383 115.848 -2.912 1.00 29.35	6

MOTA MOTA MOTA MOTA MOTA	3912 3913 3914 3915 3916	O N CA CB CG	LYS C GLU C GLU C GLU C	49 50 50 50	54.371 116.390 -3.391 1.00 28.88 8 53.325 115.451 -1.652 1.00 18.42 7 54.461 115.636 -0.768 1.00 20.92 6 54.285 114.825 0.515 1.00124.61 6 53.448 115.494 1.583 1.00127.58 6
ATOM	3917	CD	GLU C	50	53.419 114.679 2.851 1.00129.37 6
ATOM	3918	OE1	GLU C	50	54.507 114.257 3.299 1.00128.96 8
ATOM ATOM	3919 3920	OE2 C	GLU C GLU C	50 50	52.315 114.463 3.397 1.00132.46 8 55.743 115.194 -1.467 1.00 21.08 6
ATOM	3921	0	GLU C	50	56.631 116.000 -1.719 1.00 22.13 8
MOTA	3922	N	THR C	51	55.852 113.911 -1.777 1.00 71.11 7
MOTA	3923	CA	THR C	51	57.046 113.427 -2.442 1.00 72.37 6
ATOM	3924	CB	THR C	51	56.886 111.980 -2.832 1.00 31.71 6
ATOM ATOM	3925 3926	OG1 CG2	THR C	51 51	56.273 111.262 -1.759 1.00 30.28 8 58.230 111.386 -3.103 1.00 31.58 6
ATOM	3927	C	THR C	51	57.249 114.262 -3.697 1.00 74.48 6
ATOM	3928	0	THR C	51	56.557 114.071 -4.701 1.00 74.18 8
MOTA	3929	N	PHE C	52	58.194 115.195 -3.641 1.00207.23 7
ATOM	3930	CA	PHE C	52	58.437 116.065 -4.781 1.00208.87 6
ATOM ATOM	3931 3932	CB CG	PHE C	52 52	59.544 117.102 -4.471 1.00106.21 6 60.822 116.525 -3.893 1.00106.76 6
ATOM	3933	CD1	PHE C	52	61.419 115.387 -4.434 1.00106.34 6
ATOM	3934	CD2	PHE C	52	61.462 117.171 -2.836 1.00106.63 6
ATOM	3935	CE1	PHE C	52	62.635 114.907 -3.930 1.00106.88 6
ATOM	3936	CE2	PHE C	52	62.675 116.701 -2.327 1.00106.95 6
ATOM ATOM	3937 3938	CZ C	PHE C	52 52	63.262 115.568 -2.874 1.00107.20 6 58.752 115.329 -6.079 1.00208.87 6
ATOM	3939	0	PHE C	52	59.429 114.299 -6.075 1.00208.87 8
ATOM	3940	N	PRO C	53	58.227 115.837 -7.209 1.00122.42 7
ATOM	3941	CD	PRO C	53	57.338 117.005 -7.345 1.00 39.07 6
ATOM	3942	CA	PRO C	53	58.467 115.224 -8.514 1.00122.58 6
ATOM ATOM	3943 3944	CB CG	PRO C	53 53	58.031 116.313 -9.478 1.00 38.23 6 56.863 116.884 -8.778 1.00 38.12 6
ATOM	3945	C	PRO C	53	59.947 114.921 -8.634 1.00123.24 6
MOTA	3946	Ō	PRO C	53	60.766 115.837 -8.679 1.00124.61 8
MOTA	3947	N	ILE C	54	60.293 113.641 -8.676 1.00 59.25 7
ATOM	3948	CA	ILE C	54	61.691 113.260 -8.772 1.00 59.00 6
ATOM ATOM	3949 3950	CB CG2	ILE C	54 54	61.854 111.761 -9.153 1.00 38.24 6 60.999 111.441 -10.361 1.00 38.42 6
ATOM	3951	CG1	ILE C	54	63.335 111.442 -9.418 1.00 38.13 6
MOTA	3952		ILE C	54	64.270 111.795 -8.272 1.00 35.57 6
MOTA	3953	C	ILE C	54	62.472 114.127 -9.753 1.00 59.79 6
ATOM	3954	0	ILE C	54	62.206 114.152 -10.955 1.00 59.16 8
ATOM ATOM	3955 3956	N CA	GLU C	55 55	63.420 114.871 -9.199 1.00 61.34 7 64.285 115.720 -9.988 1.00 63.19 6
MOTA	3957	CB	GLU C	55	65.047 116.698 -9.085 1.00 88.10 6
MOTA	3958	CG	GLU C	55	64.181 117.597 -8.191 1.00 89.00 6
ATOM	3959	CD	GLU C	55	63.485 116.848 -7.068 1.00 89.60 6
ATOM ATOM	3960 3961	OE1 OE2	GLU C GLU C	55 55	64.139 116.016 -6.408 1.00 90.86 8 62.288 117.106 -6.833 1.00 88.74 8
ATOM	3962	C	GLU C	55	65.256 114.720 -10.603 1.00 64.85 6
ATOM	3963	Ö	GLU C	55	64.879 113.577 -10.856 1.00 65.18 8
ATOM	3964	N	GLU C	56	66.501 115.128 -10.824 1.00154.58 7
ATOM	3965	CA	GLU C	56 56	67.494 114.226 -11.397 1.00157.05 6
ATOM ATOM	3966 3967	CB CG	GLU C	56 56	67.211 113.985 -12.881 1.00124.00 6 67.245 115.244 -13.718 1.00125.79 6
111 011	3301		JH0 C	50	07.240 110.244 10.710 1.00120.79 0

ATOM	3968	CD	GLU C	56	66.159 116.225 -13.323 1.00127.18 6
ATOM	3969	OE1	GLU C	56	64.979 115.979 -13.655 1.00127.61 8
MOTA	3970	OE2	GLU C	56	66.484 117.239 -12.667 1.00127.56 8
ATOM		С	GLU C	56	68.891 114.795 -11.240 1.00158.22 6
MOTA		0	GLU C	56	69.172 115.529 -10.294 1.00158.76 8
ATOM		N ~-	GLY C	57	69.765 114.445 -12.176 1.00103.07 7
ATOM		CA	GLY C	57	71.129 114.932 -12.130 1.00104.55 6 71.238 116.354 -12.641 1.00105.62 6
ATOM		C	GLY C	57 57	71.238 116.354 -12.641 1.00105.62 6 70.732 116.685 -13.720 1.00106.41 8
ATOM ATOM		N O	GLY C ALA C	57 58	71.898 117.202 -11.860 1.00132.92 7
ATOM		CA	ALA C	58	72.075 118.592 -12.240 1.00133.77 6
ATOM		CB	ALA C	58	72.757 118.657 -13.590 1.00 19.77 6
ATOM		C	ALA C	58	70.722 119.303 -12.289 1.00134.75 6
ATOM		Ö	ALA C	58	69.912 119.053 -13.187 1.00134.98 8
ATOM		N	LYS C	59	70.492 120.188 -11.318 1.00156.20 7
MOTA	3983	CA	LYS C	59	69.246 120.950 -11.200 1.00157.09 6
MOTA	3984	CB	LYS C	59	69.438 122.137 -10.246 1.00107.35 6
MOTA		CG	LYS C	59	69.663 121.752 -8.784 1.00107.22 6
MOTA		CD	LYS C	59	69.714 122.989 -7.877 1.00106.92 6
MOTA		CE	LYS C	59	69.795 122.617 -6.393 1.00106.52 6
ATOM		NZ	LYS C	59	69.818 123.818 -5.509 1.00105.42 7
ATOM		C	LYS C	59 59	68.684 121.463 -12.524 1.00157.61 6 69.074 122.530 -13.006 1.00157.43 8
ATOM ATOM		O N	LYS C GLY C	60	67.752 120.701 -13.094 1.00129.14 7
ATOM		CA	GLY C	60	67.137 121.081 -14.353 1.00129.03 6
ATOM		C	GLY C	60	68.148 121.434 -15.429 1.00129.06 6
ATOM		Ö	GLY C	60	68.306 122.606 -15.779 1.00129.14 8
ATOM		N	LYS C	61	68.832 120.419 -15.952 1.00189.07 7
ATOM		CA	LYS C	61	69.837 120.612 -16.997 1.00188.42 6
MOTA	3997	CB	LYS C	61	71.193 120.067 -16.531 1.00 95.41 6
MOTA		CG	LYS C	61	71.836 120.846 -15.397 1.00 95.06 6
MOTA		$^{\mathrm{CD}}$	LYS C	61	72.555 122.091 -15.882 1.00 94.98 6
ATOM		CE	LYS C	61	73.320 122.758 -14.738 1.00 94.81 6
ATOM		NZ	LYS C	61	74.117 123.930 -15.204 1.00 94.67 7 69.433 119.927 -18.304 1.00187.52 6
ATOM ATOM		C O	LYS C LYS C	61 61	69.433 119.927 -18.304 1.00187.52 6 69.906 120.301 -19.380 1.00187.21 8
ATOM		N	GLY C	62	68.561 118.927 -18.207 1.00173.41 7
ATOM		CA	GLY C	62	68.121 118.212 -19.394 1.00172.55 6
ATOM		C	GLY C	62	66.715 117.645 -19.301 1.00171.94 6
ATOM		Ö	GLY C	62	65.782 118.334 -18.882 1.00172.35 8
ATOM	4008	N	GLY C	63	66.562 116.382 -19.692 1.00106.71 7
MOTA		CA	GLY C	63	65.255 115.752 -19.651 1.00104.35 6
ATOM		С	GLY C	63	65.002 114.888 -18.430 1.00102.47 6
ATOM		0	GLY C	63	65.893 114.685 -17.604 1.00102.37 8
ATOM		N	LEU C	64	63.769 114.394 -18.330 1.00153.39 7
ATOM		CA	LEU C	64	63.305 113.529 -17.240 1.00151.74 6 64.362 112.473 -16.911 1.00130.45 6
ATOM		CB CG	LEU C	64 64	64.362 112.473 -16.911 1.00130.45 6 64.731 111.550 -18.072 1.00129.19 6
ATOM ATOM		CD1		64	65.827 110.609 -17.627 1.00128.90 6
ATOM		CD1		64	63.509 110.775 -18.533 1.00129.76 6
ATOM		CDZ	LEU C	64	62.891 114.261 -15.965 1.00150.41 6
ATOM		Õ	LEU C	64	63.715 114.536 -15.097 1.00150.11 8
ATOM		N	VAL C	65	61.599 114.564 -15.864 1.00 94.25 7
ATOM		CA	VAL C	65	61.043 115.254 -14.703 1.00 93.03 6
ATOM		CB	VAL C	65	60.210 116.477 -15.131 1.00 49.35 6
ATOM	4023	CG1	VAL C	65	59.347 116.972 -13.990 1.00 48.78 6

ATOM	4024	CG2	VAL C	65	61.131 117.571 -15.572 1.00 49.43 6
ATOM ATOM	4025 4026	C O	VAL C	65 65	60.142 114.304 -13.925 1.00 93.26 6 60.385 114.015 -12.747 1.00 93.73 8
ATOM	4027	N	LEU C	66	59.099 113.828 -14.601 1.00 62.83 7
MOTA	4028	CA	LEU C	66	58.137 112.902 -14.017 1.00 60.91 6
ATOM	4029	СВ	LEU C	66	58.833 111.620 -13.543 1.00 55.02 6
MOTA	4030	CG	LEU C	66	57.939 110.554 -12.900 1.00 54.34 6
MOTA	4031	CD1	LEU C	66	56.776 110.172 -13.817 1.00 53.57 6
MOTA	4032	CD2	LEU C	66	58.798 109.350 -12.578 1.00 54.77 6
MOTA	4033	C	LEU C	66	57.368 113.504 -12.867 1.00 59.76 6
ATOM	4034	0	LEU C	66	57.903 113.717 -11.780 1.00 58.86 8
MOTA	4035	N	ASP C	67	56.101 113.786 -13.125 1.00 83.71 7 55.234 114.338 -12.111 1.00 84.15 6
ATOM	4036 4037	CA CB	ASP C ASP C	67 67	55.234 114.338 -12.111 1.00 84.15 6 54.619 115.662 -12.588 1.00162.72 6
ATOM ATOM	4037	СБ СG	ASP C	67	54.463 115.733 -14.100 1.00164.62 6
ATOM	4039		ASP C	67	55.465 115.526 -14.817 1.00164.61 8
ATOM	4040	OD2	ASP C	67	53.339 116.011 -14.570 1.00166.53 8
ATOM	4041	C	ASP C	67	54.164 113.299 -11.820 1.00 83.51 6
ATOM	4042	0	ASP C	67	54.057 112.295 -12.531 1.00 83.41 8
MOTA	4043	N	PHE C	68	53.390 113.526 -10.765 1.00 28.71 7
MOTA	4044	CA	PHE C	68	52.343 112.596 -10.385 1.00 28.07 6
ATOM	4045	CB	PHE C	68	52.508 112.183 -8.912 1.00 91.06 6
ATOM	4046	CG	PHE C	68	53.892 111.617 -8.571 1.00 92.16 6
ATOM	4047	CD1	PHE C	68 68	55.010 112.452 -8.483 1.00 92.24 6 54.069 110.251 -8.321 1.00 91.63 6
ATOM ATOM	4048 4049	CD2 CE1	PHE C	68	54.069 110.251 -8.321 1.00 91.63 6 56.269 111.932 -8.150 1.00 91.63 6
ATOM	4050	CE2	PHE C	68	55.327 109.731 -7.989 1.00 90.24 6
ATOM	4051	CZ	PHE C	68	56.422 110.571 -7.904 1.00 90.55 6
ATOM	4052	C	PHE C	68	50.983 113.236 -10.621 1.00 27.88 6
ATOM	4053	0	PHE C	68	50.844 114.454 -10.543 1.00 26.24 8
ATOM	4054	N	LEU C	69	49.993 112.405 -10.941 1.00131.88 7
ATOM	4055	CA	LEU C	69	48.627 112.862 -11.193 1.00132.72 6
ATOM	4056	CB	LEU C	69	48.188 112.515 -12.617 1.00 63.15 6
ATOM ATOM	4057 4058	CG CD1	LEU C	69 69	49.022 112.904 -13.834 1.00 63.27 6 48.220 112.557 -15.096 1.00 62.57 6
ATOM	4059	CD1	LEU C	69	49.365 114.391 -13.795 1.00 63.36 6
ATOM	4060	C	LEU C	69	47.668 112.176 -10.221 1.00133.30 6
ATOM	4061	Ō	LEU C	69	47.779 112.332 -9.002 1.00134.07 8
MOTA	4062	N	GLU C	70	46.730 111.410 -10.775 1.00 73.64 7
ATOM	4063	CA	GLU C	70	45.758 110.691 -9.966 1.00 74.13 6
MOTA	4064	CB	GLU C	70	44.628 110.115 -10.825 1.00 82.92 6
ATOM	4065	CG	GLU C	70	44.808 110.252 -12.315 1.00 84.69 6
ATOM	4066 4067	CD OF1	GLU C GLU C	70 70	44.267 111.559 -12.825 1.00 85.45 6 44.775 112.616 -12.402 1.00 85.54 8
ATOM ATOM	4067	OE1	GLU C	70	44.775 112.616 -12.402 1.00 85.54 8 43.328 111.525 -13.643 1.00 86.32 8
ATOM	4069	C	GLU C	70	46.387 109.546 -9.192 1.00 73.87 6
ATOM	4070	Õ	GLU C	70	47.593 109.341 -9.202 1.00 74.29 8
MOTA	4071	N	TYR C	71	45.525 108.794 -8.534 1.00 41.60 7
ATOM	4072	CA	TYR C	71	45.908 107.657 -7.720 1.00 41.39 6
ATOM	4073	CB	TYR C	71	46.016 108.097 -6.254 1.00 96.85 6
ATOM	4074	CG	TYR C	71	44.711 108.649 -5.736 1.00 99.37 6
ATOM	4075	CD1 CE1	TYR C	71 71	43.794 107.826 -5.096 1.00100.19 6 42.526 108.288 -4.753 1.00101.02 6
ATOM ATOM	4076 4077	CD2	TYR C	71 71	44.332 109.963 -6.011 1.00100.76 6
ATOM	4078	CE2	TYR C	71	43.061 110.437 -5.672 1.00101.32 6
MOTA	4079	CZ	TYR C	71	42.160 109.592 -5.045 1.00101.36 6

ATOM ATOM	4080 4081	OH C	TYR C	71 71	44.721		-4.732 -7.905	1.00100.65 1.00 40.46	8
ATOM ATOM	4082 4083	O N	TYR C ARG C	71 72	43.591 44.944		-8.038	1.00 39.16	8
ATOM	4083	CA	ARG C	72	43.812		-7.911 -8.107	1.00 55.34 1.00 55.85	7 6
ATOM	4085	CB	ARG C	72	43.737		-9.585	1.00 97.22	6
ATOM	4086	CG	ARG C	72	42.499		-9.949	1.00 99.67	6
ATOM	4087	CD	ARG C	72	42.447		-11.431	1.00100.61	6
MOTA	4088	NE	ARG C	72	41.858		-11.663	1.00102.71	7
MOTA	4089	CZ	ARG C	72	41.921		-12.815	1.00104.14	6
ATOM	4090	NH1	ARG C	72	42.548		-13.856	1.00103.10	7
ATOM	4091	NH2	ARG C	72	41.366		-12.921	1.00105.69	7
MOTA	4092 4093	C O	ARG C	72 72	43.736		-7.230	1.00 55.38	6
ATOM ATOM	4093	N	ARG C ILE C	73	44.406 42.924		-7.487 -6.184	1.00 55.48 1.00 45.89	8 7
MOTA	4095	CA	ILE C	73	42.716		-5.321	1.00 46.35	6
ATOM	4096	CB	ILE C	73	42.063		-3.953	1.00 79.44	6
MOTA	4097	CG2	ILE C	73	41.576		-3.206	1.00 79.78	6
MOTA	4098	CG1	ILE C	73	43.061		-3.082	1.00 79.96	6
MOTA	4099	CD1	ILE C	73	43.415		-3.606	1.00 82.19	6
MOTA	4100	C	ILE C	73	41.683		-6.171	1.00 45.72	6
ATOM	4101	0	ILE C	73	41.190		-7.124	1.00 45.98	8
ATOM ATOM	4102 4103	N CA	GLY C	74 74	41.347 40.325		-5.877 -6.699	1.00 59.70 1.00 59.89	7 6
ATOM	4103	CA	GLY C	74	40.323		-6.685	1.00 59.89	6
ATOM	4105	Ö	GLY C	74	40.582		-5.715	1.00 59.22	8
ATOM	4106	N	ASP C	75	39.676		-7.780	1.00 75.15	7
ATOM	4107	CA	ASP C	75	39.494		-7.966	1.00 74.49	6
MOTA	4108	CB	ASP C	75	39.890		-9.426	1.00 60.41	6
ATOM	4109	CG	ASP C	75	40.785		-10.166	1.00 61.12	6
ATOM	4110	OD1	ASP C	75 75	40.351		-10.406	1.00 61.97	8
ATOM ATOM	$\frac{4111}{4112}$	OD2 C	ASP C ASP C	75 75	41.926 40.230		-10.540 -6.930	1.00 60.97 1.00 73.41	8 6
ATOM	4113	0	ASP C	75 75	41.259		-7.233	1.00 73.41	8
ATOM	4114	N	PRO C	76	39.690		-5.697	1.00 53.20	7
ATOM	4115	CD	PRO C	76	38.342		-5.308	1.00 76.69	6
ATOM	4116	CA	PRO C	76	40.293		-4.626	1.00 52.08	6
ATOM	4117	CB	PRO C	76	39.281		-3.495	1.00 75.29	6
ATOM	4118	CG	PRO C	76 76	38.002		-4.222	1.00 76.95	6
ATOM ATOM	$4119 \\ 4120$	С О	PRO C	76 76	40.535 39.833	92.907 92.378	-5.039 -5.887	1.00 50.99 1.00 52.01	6 8
ATOM	4121	N	PRO C PRO C	77	41.541		-4.441	1.00 32.01	7
ATOM	4122	CD	PRO C	 77	42.534		-3.546	1.00100.31	6
ATOM	4123	CA	PRO C	77	41.910		-4.729	1.00 42.97	6
ATOM	4124	CB	PRO C	77	43.053	90.605	-3.752	1.00 99.15	6
MOTA	4125	CG	PRO C	77	43.722		-3.691	1.00100.25	6
ATOM	4126	C	PRO C	77	40.805		-4.615	1.00 42.68	6
ATOM	4127	O	PRO C	77	40.045		-5.559	1.00 42.66	8
ATOM ATOM	4128 4129	N CA	PHE C	78 78	40.726 39.736		-3.460 -3.235	1.00105.15 1.00104.28	7 6
MOTA	4130	CB	PHE C	78	40.370		-2.479	1.00104.20	6
ATOM	4131	CG	PHE C	78	41.528		-3.185	1.00 41.61	6
ATOM	4132	CD1	PHE C	78	42.663	87.091	-3.439	1.00 40.07	6
MOTA	4133	CD2	PHE C	78	41.479		-3.611	1.00 40.88	6
ATOM	4134	CE1	PHE C	78	43.735		-4.111	1.00 40.12	6
ATOM	4135	CE2	PHE C	78	42.544	84.456	-4.284	1.00 41.19	6

ATOM	4136	CZ	PHE C	78	43.680	85.216	-4.537	1.00 40.97	6
MOTA	4137	C	PHE C	78	38.513	88.571	-2.478	1.00104.94	6
ATOM	4138	0	PHE C	78	37.586	89.119	-3.068	1.00106.80	8
MOTA	4139	N	SER C	79	38.510	88.331	-1.170	1.00 30.96	7
ATOM	4140	CA	SER C SER C	79 79	37.382 36.118	88.729	-0.336	1.00 31.37	6
ATOM ATOM	$4141 \\ 4142$	CB OG	SER C	79 79	36.158	88.019 86.651	-0.803 -0.430	1.00 97.02 1.00 95.83	6 8
ATOM	4143	C	SER C	79	37.556	88.437	$\frac{-0.430}{1.145}$	1.00 33.83	6
ATOM	4144	Ö	SER C	79	38.066	87.393	1.514	1.00 32.21	8
MOTA	4145	N	GLN C	80	37.113	89.353	1.997	1.00 71.63	7
ATOM	4146	CA	GLN C	80	37.202	89.121	3.429	1.00 73.84	6
ATOM	4147	CB	GLN C	80	36.353	90.134	4.188	1.00 75.43	6
MOTA	4148	CG	GLN C	80	36.884	91.544	4.141	1.00 75.54	6
MOTA	4149	CD	GLN C	80	36.155	92.451	5.104	1.00 75.38	6
ATOM	4150	OE1	GLN C	80	35.547	91.989	6.067	1.00 74.86	8
ATOM	4151	NE2	GLN C	80	36.227	93.752	4.862	1.00 75.75	7
ATOM	4152	C	GLN C	80	36.653	87.715	3.660	1.00 74.89	6
ATOM ATOM	4153 4154	O N	GLN C ASP C	80 81	35.756 37.184	87.278 87.016	2.936 4.661	1.00 74.90 1.00 54.21	8 7
ATOM	4155	CA	ASP C	81	36.764	85.645	4.961	1.00 55.86	6
ATOM	4156	CB	ASP C	81	35.256	85.457	4.708	1.00 95.24	6
ATOM	4157	CG	ASP C	81	34.424	85.514	5.985	1.00 96.12	6
ATOM	4158	OD1	ASP C	81	33.181	85.604	5.875	1.00 95.54	8
MOTA	4159	OD2	ASP C	81	35.001	85.453	7.095	1.00 96.33	8
MOTA	4160	С	ASP C	81	37.560	84.738	4.031	1.00 56.84	6
ATOM	4161	0	ASP C	81	38.147	83.743	4.462	1.00 57.38	8
ATOM	4162	N	GLU C	82	37.568	85.097	2.749	1.00 54.96	7
ATOM	4163 4164	CA	GLU C	82 82	38.301 37.992	84.354 84.933	$1.729 \\ 0.347$	1.00 56.17 1.00 93.25	6
ATOM ATOM	4164	CB CG	GLU C GLU C	82	37.992	84.045	-0.837	1.00 95.25	6 6
ATOM	4166	CD	GLU C	82	38.033	84.733	-2.169	1.00 93.92	6
ATOM	4167	OE1	GLU C	82	37.052	85.501	-2.254	1.00 96.68	8
MOTA	4168	OE2	GLU C	82	38.783	84.497	-3.142	1.00 99.04	8
MOTA	4169	C	GLU C	82	39.773	84.567	2.062	1.00 56.43	6
MOTA	4170	0	GLU C	82	40.643	83.786	1.670	1.00 56.69	8
MOTA	4171	N ~-	CYS C	83	40.035	85.643	2.800	1.00 46.10	7
ATOM	4172	CA	CYS C	83	41.387	85.992	3.195	1.00 46.27	6
ATOM ATOM	$4173 \\ 4174$	CB SG	CYS C	83 83	41.488 42.080	87.491 88.510	3.473 2.098	1.00 42.68 1.00 46.55	6 16
ATOM	4175	C	CYS C	83	41.767	85.219	4.435	1.00 46.33	6
ATOM	4176	0	CYS C	83	42.624	84.341	4.384	1.00 47.41	8
ATOM	4177	N	ARG C	84	41.115	85.549	5.546	1.00 84.05	7
MOTA	4178	CA	ARG C	84	41.360	84.909	6.836	1.00 84.14	6
MOTA	4179	СВ	ARG C	84	40.213	85.248	7.788	1.00 63.56	6
MOTA	4180	CG	ARG C	84	39.841	86.730	7.773	1.00 65.71	6
MOTA	4181	CD	ARG C	84	38.499	87.020	8.456	1.00 66.90	6
MOTA	4182	NE	ARG C	84	38.042	88.390	8.205	1.00 67.15	7
ATOM ATOM	4183 4184	CZ NH1	ARG C	84 84	36.914 36.131	88.897 88.145	8.684 9.436	1.00 67.18 1.00 67.91	6 7
ATOM	4185	NH2	ARG C	84	36.581	90.153	8.425	1.00 66.18	7
ATOM	4186	C	ARG C	84	41.471	83.395	6.668	1.00 83.47	6
ATOM	4187	Ö	ARG C	84	42.113	82.704	7.458	1.00 83.60	8
MOTA	4188	N	GLU C	85	40.839	82.892	5.616	1.00 51.89	7
MOTA	4189	CA	GLU C	85	40.845	81.473	5.317	1.00 50.77	6
ATOM	4190	CB	GLU C	85	39.711	81.162	4.337	1.00110.83	6
ATOM	4191	CG	GLU C	85	39.405	79.694	4.168	1.00114.03	6

ATOM ATOM ATOM ATOM	4192 4193 4194 4195	CD OE1 OE2 C	GLU C GLU C GLU C	85 85 85 85	37.971 37.566 37.243 42.190	79.454 79.951 78.768 81.090	3.741 2.665 4.491 4.724	1.00116.33 1.00117.61 1.00118.24 1.00 48.87	6 8 8 6
MOTA	4196	0	GLU C	85	42.891	80.238	5.268	1.00 48.42	8
ATOM	4197 4198	N	LYS C LYS C	86 86	42.542 43.788	81.755 81.515	3.623 2.891	1.00 42.41 1.00 41.09	7 6
ATOM ATOM	4198	CA CB	LYS C LYS C	86	43.700	81.694	1.397	1.00 41.00	6
ATOM	4200	CG	LYS C	86	42.664	80.608	0.806	1.00 51.79	6
ATOM	4201	CD	LYS C	86	42.216	80.915	-0.609	1.00 52.63	6
MOTA	4202	CE	LYS C	86	41.368	79.761	-1.135	1.00 53.06	6
MOTA	4203	NZ	LYS C	86	40.609	80.092	-2.375	1.00 52.14	7
ATOM	4204	С	LYS C	86	44.974	82.391	3.312	1.00 40.46	6
ATOM	4205	0	LYS C	86	45.927	82.576	$2.541 \\ 4.541$	1.00 39.36 1.00 49.99	8 7
ATOM	4206	N	ASP C	87 87	44.912 45.959	82.909 83.770	5.094	1.00 49.99	6
ATOM ATOM	4207 4208	CA CB	ASP C	87	47.226	82.961	5.387	1.00 40.33	6
ATOM	4209	CG	ASP C	87	47.079	82.066	6.599	1.00 56.33	6
ATOM	4210	OD1	ASP C	87	46.566	82.549	7.625	1.00 56.05	8
MOTA	4211	OD2	ASP C	87	47.490	80.887	6.533	1.00 57.01	8
MOTA	4212	С	ASP C	87	46.309	84.936	4.177	1.00 47.56	6
ATOM	4213	0	ASP C	87	47.477	85.287	4.018	1.00 47.08	8 7
ATOM	4214	N	LEU C	88	45.293 45.526	85.541 86.659	3.578 2.690	1.00 38.58 1.00 37.19	6
ATOM ATOM	4215 4216	CA CB	LEU C	88 88	43.520	86.529	1.451	1.00 93.94	6
ATOM	4217	CB	LEU C	88	44.885	85.243	0.658	1.00 94.32	6
MOTA	4218	CD1	LEU C	88	44.093	85.334	-0.633	1.00 95.01	6
ATOM	4219	CD2	LEU C	88	46.372	85.040	0.364	1.00 94.63	6
ATOM	4220	C	LEU C	88	45.277	87.994	3.376	1.00 36.02	6
ATOM	4221	0	LEU C	88	44.302	88.161	4.098	1.00 35.88	8
MOTA	4222	N	THR C	89	46.184	88.935 90.259	3.146 3.731	1.00 29.88 1.00 29.65	7 6
ATOM	$\frac{4223}{4224}$	CA CB	THR C	89 89	46.094 47.479	90.259	3.731	1.00 29.03	6
MOTA MOTA	4224	OG1	THR C	89	48.448	90.092	4.345	1.00120.67	8
MOTA	4226	CG2	THR C	89	47.422	92.265	4.515	1.00119.01	6
MOTA	4227	C	THR C	89	45.129	91.101	2.906	1.00 28.47	6
ATOM	4228	Ο	THR C	89	45.539	91.743	1.946	1.00 28.45	8
ATOM	4229	N	TYR C	90	43.852	91.089	3.281	1.00 32.04	7
ATOM	4230	CA	TYR C	90	42.807	91.852	2.595 3.536	1.00 30.45 1.00 59.69	6 6
ATOM	4231 4232	CB CG	TYR C	90 90	41.619 40.472	92.044 92.807	2.931	1.00 59.09	6
ATOM ATOM	4232	CD1	TYR C	90	39.680	92.242	1.938	1.00 58.51	6
ATOM	4234	CE1	TYR C	90	38.638	92.949	1.364	1.00 58.19	6
ATOM	4235	CD2	TYR C	90	40.189	94.101	3.336	1.00 58.79	6
ATOM	4236	CE2	TYR C	90	39.152	94.813	2.769	1.00 58.09	6
MOTA	4237	CZ	TYR C	90	38.382	94.234	1.785	1.00 57.73	6
ATOM	4238	OH	TYR C	90	37.358	94.956	1.225	1.00 58.50	8 6
MOTA MOTA	4239 4240	C O	TYR C	90 90	43.308 43.250	93.218 94.183	2.149 2.917	1.00 30.34 1.00 29.90	8
ATOM	4240	N	GLN C	91	43.789	93.298	0.909	1.00 80.36	7
MOTA	4242	CA	GLN C	91	44.322	94.540	0.357	1.00 80.21	6
MOTA	4243	СВ	GLN C	91	45.760	94.330	-0.108	1.00 69.15	6
MOTA	4244	CG	GLN C	91	46.719	93.994	1.005	1.00 70.45	6
ATOM	4245	CD	GLN C	91	48.044	93.506	0.481	1.00 71.04	6
ATOM	4246	OE1	GLN C	91	48.086	92.670	-0.422 1.049	1.00 70.94 1.00 71.35	8 7
ATOM	4247	NE2	GLN C	91	49.140	94.014	1.049	1.00 /1.35	,

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4249 4251 4255 4255 4255 4255 4255 4255 4255	C O N CAB C O N C C C C C C O N C C C C C C C C C		999999999999999999999999999999999999999	49.432 48.184 46.984 45.935 46.567 45.930 44.629	94.845 95.274 97.270 96.96.616 97.616 97.616 97.616 97.342 96.638 99.453 101.446 102.932 103.808 101.386 101.386 101.386 101.386 101.458 101.458 101.458 101.458 101.458 101.490 102.135 101.490 103.675 104.244 105.802 106.341 107.748 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 107.744 108.368 107.450 108.672 108.672 108.672 108.672 108.672 108.672 108.672 108.672 108.672 108.762 109.540	-1.734 -2.931 -2.5505 -3.805 -3.805 -5.8100 -7.413 -7.2162 -6.501 -5.839 -6.509 -6.509 -6.509 -6.509 -10.637 -10.768	1.00 79.27 1.00 79.86 1.00 69.38 1.00 69.05 1.00 13.87 1.00 68.88 1.00 68.52 1.00 48.77 1.00110.54 1.00 48.32 1.00110.46 1.00111.39 1.00 47.83 1.00 46.69 1.00 79.69 1.00 79.69 1.00 79.99 1.00 79.99 1.00 79.90 1.00 45.26 1.00 44.54 1.00 34.68 1.00 34.68 1.00 52.57 1.00 53.23 1.00 52.69 1.00 53.23 1.00 52.69 1.00 53.23 1.00 52.95 1.00 53.39 1.00 34.90 1.00 33.96 1.00 33.96 1.00 33.96 1.00 33.96 1.00 33.20 1.00 57.36 1.00 57.36 1.00 72.07 1.00 73.73 1.00 74.74 1.00 75.60 1.00 74.74 1.00 75.60 1.00 74.96	68766687666876666687666666686876668766687676776
MOTA MOTA	4291 4292	CD NE	ARG C ARG C	97 97	45.935 46.567	108.071 108.672	-14.752 -15.922	1.00 72.07 1.00 73.73	6 7
MOTA	4294	NH1	ARG C	97	44.629	108.762	-17.151	1.00 75.60	7
A'I'OM ATOM	4295 4296	NH2 C	ARG C ARG C	97 97		109.540		1.00 74.96	7 6
MOTA MOTA	4297 4298	N	ARG C LEU C	97 98		109.958 108.495		1.00 56.82 1.00102.03	8 7
ATOM	4299	CA	LEU C	98	52.818	109.467	-13.668	1.00103.88	6
ATOM ATOM	4300 4301	CB CG	LEU C LEU C	98 98		. 108.888 . 107.917		1.00 55.34 1.00 55.72	6 6
ATOM	4302	CD1	LEU C	98	55.067	107.471	-11.165	1.00 56.45	6
MOTA	4303	CD2	LEU C	98	52.866	108.572	-10.770	1.00 54.94	6

ATOM ATOM ATOM	4304 4305 4306	C O N	LEU C LEU C GLN C	98 98 99	52.603	109.833 109.236 110.810	-16.050	1.00104.43 1.00105.22 1.00 65.41	6 8 7
MOTA	4307	CA	GLN C	99	54.407	111.243	-16.688	1.00 65.55	6
ATOM	4308	CB	GLN C	99	53.305	112.132		1.00 54.10	6
ATOM	4309	CG	GLN C	99		113.191		1.00 54.45	6
ATOM	4310 4311	CD OE1	GLN C	99 99		114.173 113.799	-16.975 -17.836	1.00 54.22 1.00 53.31	6 8
ATOM ATOM	4311	NE2	GLN C	99		115.432	-16.530	1.00 53.31	7
ATOM	4313	C	GLN C	99		112.009		1.00 66.35	6
ATOM	4314	Õ	GLN C	99		113.204		1.00 67.40	8
ATOM	4315	N	LEU C	100				1.00 57.89	7
ATOM	4316	CA	LEU C	100		111.988		1.00 58.25	6
MOTA	4317	CB	LEU C	100	59.253		-17.182	1.00 58.65	6
ATOM	4318	CG	LEU C	100		109.541		1.00 59.06	6
ATOM	4319	CD1	LEU C	100	58.250		-18.983	1.00 59.44	6
ATOM	4320	CD2		100 100	60.013 58.312		-17.468	1.00 58.33 1.00 59.20	6 6
ATOM ATOM	4321 4322	C O	LEU C	100		112.741		1.00 59.20	8
ATOM	4323	N	ILE C	101	58.931		-17.920	1.00 33.43	7
MOTA	4324	CA		101	59.157		-18.891	1.00 74.12	6
MOTA	4325	CB	ILE C	101	58.997	116.566	-18.227	1.00 59.88	6
MOTA	4326	CG2	ILE C		58.873	117.647		1.00 59.71	6
MOTA	4327	CG1		101		116.584		1.00 60.33	6
MOTA	4328	CD1		101		116.261		1.00 61.69	6
MOTA	4329	C	ILE C	101				1.00 75.54	6 8
ATOM	4330 4331	O NT		101 102	61.377 60.835		-18.986 -20.538	1.00 75.14 1.00 74.04	7
ATOM ATOM	4331	N CA	HIS C			115.798	-20.338 -21.202	1.00 74.04	6
ATOM	4333	CB		102		115.730	-22.619	1.00 83.57	6
MOTA	4334	CG	HIS C	102		113.771		1.00 84.63	6
ATOM	4335	CD2	HIS C	102	60.613	113.131	-23.260	1.00 84.82	6
MOTA	4336		HIS C		62.438		-22.112	1.00 85.38	7
MOTA	4337	CE1		102	61.903		-22.358	1.00 85.82	6
ATOM	4338	NE2		102		111.784	-23.054	1.00 85.53	7 6
ATOM	4339	C	HIS C	102 102		117.210 118.066	-21.321 -20.441	1.00 75.87 1.00 75.97	8
ATOM ATOM	4340 4341	N O	LYS C	103	63.403		-20.441	1.00107.67	7
ATOM	4342	CA		103	64.040		-22.813	1.00109.49	6
ATOM	4343	CB	LYS C			118.919	-21.983	1.00112.21	6
ATOM	4344	CG	LYS C		65.185	120.085	-21.008	1.00113.26	6
ATOM	4345	CD	LYS C	103		121.354		1.00113.90	6
ATOM	4346	CE	LYS C			122.480		1.00114.86	6
ATOM	4347	ΝZ	LYS C			123.587		1.00115.30	7
ATOM	4348	C	LYS C			118.508	-24.286 -24.830	1.00108.56 1.00108.10	6 8
ATOM ATOM	4349 4350	O N	LYS C ASP C			119.216 117.548	-24.830 -24.911	1.00108.10	7
ATOM	4351	CA	ASP C			117.196	-26.307	1.00 51.37	6
ATOM	4352	CB	ASP C			116.117		1.00 80.96	6
ATOM	4353	CG	ASP C			115.070	-25.287	1.00 81.71	6
ATOM	4354		ASP C	104	64.879	115.445	-24.095	1.00 81.16	8
ATOM	4355	OD2				113.858	-25.586	1.00 83.61	8
ATOM	4356	C	ASP C			116.702	-26.880	1.00 51.12	6
ATOM	4357	O NT	ASP C			115.702		1.00 50.09 1.00153.67	8 7
ATOM	4358 4359	N CA	THR C			117.422 117.115		1.00155.67	6
MOTA	4333	CA	TUV C	100	00.I/4	TT1.TT3	-20.904	T.00TJ0.TJ	J

MOTA	4360	СВ	THR C			117.234		1.00130.99	6
MOTA	4361	OG1	THR C		60.166		-28.915	1.00131.67	8
ATOM	4362	CG2	THR C		58.714		-29.027	1.00130.54	6
ATOM	4363	C	THR C		59.687		-26.547	1.00157.07	6
MOTA	4364	0	THR C		60.143	114.707	-27.063	1.00157.74	8
ATOM	4365	N	GLY C		58.753	115.718	-25.595	1.00118.28	7
ATOM	4366	CA	GLY C		58.215		-25.111	1.00117.30	6
ATOM	4367	C	GLY C		57.591		-23.730	1.00116.71	6
MOTA	4368	O	GLY C		58.187		-22.778	1.00116.63	8
ATOM	4369 4370	N	LEU C		56.381 55.641			1.00 62.99	7
ATOM ATOM	4370	CA CB	LEU C		54.618		-22.373 -22.345	1.00 62.42	6 6
ATOM	4371	CG	LEU C		55.122		-22.343 -22.787	1.00116.78 1.00116.42	6
ATOM	4372	CD1			53.122		-22.767	1.00116.42	6
ATOM	4374	CD2	LEU C		56.303	116.890	-21.940	1.00116.42	6
ATOM	4375	C	LEU C		54.931		-22.236	1.00 62.45	6
ATOM	4376	Ö	LEU C		53.711		-22.414	1.00 61.96	8
ATOM	4377	N	ILE C		55.717		-21.919	1.00 85.98	7
ATOM	4378	CA	ILE C		55.233	110.187	-21.759	1.00 86.51	6
ATOM	4379	CB	ILE C		56.420			1.00 53.58	6
ATOM	4380	CG2	ILE C	108	55.898	107.772	-21.651	1.00 53.89	6
ATOM	4381	CG1	ILE C	108	57.363	109.437	-22.882	1.00 53.03	6
ATOM	4382	CD1	ILE C	108	58.780	108.849	-22.723	1.00 51.80	6
MOTA	4383	C	ILE C		54.393	110.024	-20.493	1.00 87.01	6
ATOM	4384	0	ILE C		54.701		-19.460	1.00 86.91	8
ATOM	4385	N	LYS C		53.347	109.200	-20.576	1.00 85.47	7
ATOM	4386	CA	LYS C		52.447		-19.443	1.00 86.15	6
ATOM	4387	CB	LYS C		51.192		-19.558	1.00111.00	6
ATOM	4388	CG	LYS C		51.422		-19.741	1.00112.77	6
ATOM	4389	CD	LYS C		50.091		-19.869	1.00112.61	6
MOTA	4390	CE	LYS C			111.816		1.00113.05	6
ATOM ATOM	4391 4392	NZ C	LYS C		47.901 51.967		-18.738 -19.336	1.00112.68 1.00 86.43	7 6
ATOM	4392	0	LYS C		50.963	107.323	-19.330	1.00 86.43	8
ATOM	4393	N	GLU C		52.649		-19.959	1.00 86.97	7
ATOM	4395	CA	GLU C		52.199	105.300	-18.396	1.00106.53	6
ATOM	4396	CB	GLU C		53.252		-17.717	1.00100.33	6
ATOM	4397	CG	GLU C		54.279	103.813	-18.656	1.00129.05	6
ATOM	4398	CD	GLU C		53.646		-19.818	1.00130.82	6
ATOM	4399	OE1	GLU C			102.355		1.00131.80	8
ATOM	4400	OE2	GLU C	110	54.156	103.203	-20.955	1.00131.20	8
MOTA	4401	С	GLU C	110	50.941	105.288	-17.545	1.00106.57	6
MOTA	4402	0	GLU C			105.636		1.00106.27	8
MOTA	4403	N	ASP C		49.829		-18.153	1.00130.67	7
MOTA	4404	CA	ASP C			104.837		1.00130.36	6
MOTA	4405	CB	ASP C		47.443		-18.349	1.00111.53	6
ATOM	4406	CG	ASP C		47.143		-19.500	1.00112.76	6
MOTA	4407	OD1					-19.257	1.00112.10	8
MOTA	4408		ASP C			104.763		1.00114.07	8
ATOM ATOM	4409 4410	С О	ASP C		48.671	103.945	-16.218 -16.251	1.00129.01 1.00128.94	6 8
ATOM	4411	N	GLU C		49.320		-16.231 -15.137	1.00128.94	7
ATOM	4412	CA	GLU C		48.023		-13.137	1.00 63.59	6
ATOM	4413	CB	GLU C		47.309		-14.101	1.00 53.30	6
ATOM	4414	CG	GLU C		45.940		-14.737	1.00 52.11	6
ATOM	4415	CD	GLU C		44.939		-13.859	1.00 49.80	6
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3 CI () I	1110	OE1	GLU C 1	1.0	44 EOE	100 600	-12.786	1 00 40 00	0
ATOM	4416	OE1						1.00 48.02	8
MOTA	4417	OE2	GLU C 1		44.494		-14.247	1.00 48.94	8
ATOM	4418	С	GLU C 1		49.404			1.00 62.52	6
MOTA	4419	0	GLU C 1	12	49.667	103.729	-12.174	1.00 63.01	8
ATOM	4420	N	VAL C 1	13	50.288	102.757	-14.106	1.00 27.09	7
ATOM	4421	CA	VAL C 1			102.422		1.00 26.32	6
ATOM	4422	CB	VAL C 1				-13.080	1.00 46.96	6
MOTA	4423	CG1			53.837			1.00 47.29	6
									6
ATOM	4424	CG2	VAL C 13		52.129			1.00 47.74	
MOTA	4425	C	VAL C 1		51.334			1.00 26.34	6
MOTA	4426	0	VAL C 1			101.976		1.00 26.39	8
MOTA	4427	N	PHE C 1		51.078			1.00 66.07	7
MOTA	4428	CA	PHE C 1	14	50.770	99.254	-11.642	1.00 67.05	6
ATOM	4429	CB	PHE C 1	14	50.988	97.828	-12.166	1.00208.87	6
MOTA	4430	CG	PHE C 13	14	50.006	97.420	-13.235	1.00208.87	6
ATOM	4431	CD1	PHE C 13	14	50.049	98.002	-14.500	1.00208.87	6
MOTA	4432	CD2	PHE C 13		49.014	96.480		1.00208.87	6
ATOM	4433	CE1	PHE C 1		49.119	97.658		1.00208.87	6
MOTA	4434	CE2	PHE C 11		48.078	96.129		1.00208.87	6
MOTA	4435	CZ	PHE C 1		48.131	96.720		1.00208.87	6
	4436		PHE C 1		51.626	99.516		1.00208.07	6
MOTA		C						1.00 65.65	8
ATOM	4437	0	PHE C 13		52.782	99.913			
ATOM	4438	N	LEU C 1		51.075	99.284		1.00110.47	7
MOTA	4439	CA	LEU C 1		51.837	99.586		1.00109.25	6
ATOM	4440	СВ	LEU C 1		51.597	101.061		1.00 37.12	6
MOTA	4441	CG	LEU C 1		52.362	101.840		1.00 37.25	6
MOTA	4442		LEU C 1		53.678	101.201		1.00 37.12	6
MOTA	4443	CD2	LEU C 1		52.597			1.00 38.33	6
MOTA	4444	С	LEU C 1		51.578	98.695		1.00108.54	6
MOTA	4445	0	LEU C 1		51.036	97.589		1.00108.51	8
ATOM	4446	N	GLY C 1	16	51.991	99.185	-5.647	1.00 46.71	7
MOTA	4447	CA	GLY C 1	16	51.831	98.451	-4.404	1.00 44.97	6
ATOM	4448	С	GLY C 1	16	50.410	98.185	-3.926	1.00 43.86	6
ATOM	4449	0	GLY C 1	16	49.435	98.802	-4.368	1.00 43.96	8
ATOM	4450	N	HIS C 1		50.301	97.245	-2.997	1.00 38.74	7
ATOM	4451	CA	HIS C 1		49.020	96.864		1.00 37.35	6
ATOM	4452	CB	HIS C 1		49.010	95.360		1.00 67.60	6
ATOM	4453	ĊĠ	HIS C 1		48.884	94.510		1.00 68.06	6
ATOM	4454	CD2			49.711	93.579		1.00 67.77	6
ATOM	4455		HIS C 1		47.778	94.549		1.00 68.70	7
ATOM	4456		HIS C 1		47.926	93.675		1.00 67.88	6
ATOM	4457		HIS C 1		49.091	93.074		1.00 68.90	7
ATOM	4458	C	HIS C 1:		48.730	97.641		1.00 35.72	6
	4459	0	HIS C 1		49.639	97.971		1.00 33.72	8
MOTA						97.928		1.00 74.84	7
MOTA	4460	N	LEU C 1		47.456				
MOTA	4461	CA	LEU C 1		47.047	98.673		1.00 74.20	6
ATOM	4462	CB	LEU C 1		46.449			1.00 36.96	6
ATOM	4463	CG	LEU C 1		45.850	101.004		1.00 36.31	6
MOTA	4464	CD1				102.272		1.00 36.65	6
ATOM	4465	CD2	LEU C 1		44.619	100.426		1.00 35.26	6
MOTA	4466	C	LEU C 1		46.017	97.889		1.00 73.30	6
ATOM	4467	0	LEU C 1		44.989	97.482		1.00 73.60	8
ATOM	4468	N	PRO C 1		46.292	97.637		1.00 28.71	7
MOTA	4469	CD	PRO C 1		47.628	97.637		1.00 31.16	6
MOTA	4470	CA	PRO C 1		45.306	96.892		1.00 27.70	6
ATOM	4471	СВ	PRO C 1	19	46.105	96.455	4.359	1.00 31.28	6

ATOM ATOM	4472 4473	CG C	PRO C	119 119	47.319 44.068	97.367 97.752	4.403 3.434		29.88 27.37	6 6
ATOM	4474	0		119	44.170	98.906	3.434		26.16	8
ATOM	4475	N		120	42.894	97.197	3.194		46.27	7
ATOM	4476	CA		120	41.687	97.952	3.437		47.57	6
ATOM	4477	CB		120	40.616	97.551	2.443	1.00		6
MOTA	4478	CG	LEU C		40.905	98.073	1.042		62.57	6
MOTA	4479	CD1		120	40.198	97.222	0.015		64.23	6
MOTA	4480	CD2		120	40.470	99.524	0.947	1.00	61.87	6
MOTA	4481	C		120	41.197	97.747	4.845		48.67	6
MOTA	4482	Ο		120	41.637	96.827	5.534		48.90	8
ATOM	4483	N		121	40.292	98.624	5.271	1.00		7
ATOM	4484	CA		121	39.718	98.581	6.614	1.00		6
ATOM ATOM	4485 4486	CB CG		121 121	39.714 39.464	100.003	7.225 8.744	1.00	46.78	6
ATOM	4487	SD		121	38.990	100.086	9.383	1.00	49.57 52.53	6 16
ATOM	4488	CE		121	40.558	101.748	9.830		54.56	6
ATOM	4489	C		121	38.292	98.046	6.483		43.88	6
ATOM	4490	Ö		121	37.494	98.558	5.705		44.11	8
MOTA	4491	N		122	37.973	97.001	7.229	1.00		7
ATOM	4492	CA	THR C	122	36.638	96.441	7.171	1.00	30.53	6
ATOM	4493	CB		122	36.553	95.186	7.993		59.28	6
ATOM	4494	OG1		122	37.695	94.376	7.717		59.40	8
ATOM	4495	CG2		122	35.290	94.423	7.643		61.33	6
ATOM	4496 4497	C	THR C		35.622	97.438	7.723		31.12	6
ATOM ATOM	4497	O N	THR C GLU C	122	35.999 34.338	98.406 97.198	8.386 7.456	$1.00 \\ 1.00$	31.55 49.45	8 7
ATOM	4499	CA		123	33.262	98.074	7.430		49.43	6
ATOM	4500	CB		123	31.908	97.434	7.631		90.22	6
ATOM	4501	CG		123	30.716	98.334	7.902	1.00	92.04	6
MOTA	4502	CD		123	29.398	97.686	7.518	1.00	92.73	6
MOTA	4503	OE1	GLU C		28.619	97.333	8.433	1.00	93.55	8
ATOM	4504	OE2	GLU C		29.150	97.523	6.301	1.00	93.00	8
ATOM	4505	C		123	33.417	98.265	9.439		49.89	6
ATOM ATOM	4506 4507	O N		123 124	33.117 33.898	99.326 97.193	9.995		49.12	8 7
ATOM	4507	CA		124	34.159	97.193	10.063 11.496	$1.00 \\ 1.00$	52.75 52.67	6
MOTA	4509	CB	ASP C		34.775	95.708	11.784	1.00	61.98	6
ATOM	4510	CG		124	34.826	95.382	13.260	1.00	64.87	6
ATOM	4511	OD1		124	34.951	96.323	14.071	1.00	67.98	8
ATOM	4512	OD2	ASP C	124	34.752	94.182	13.612	1.00	66.35	8
ATOM	4513	C	ASP C		35.116	98.183	11.968		50.94	6
ATOM	4514	0	ASP C		35.043	98.633	13.118		50.05	8
ATOM	4515	N	GLY C		36.025	98.590	11.083		62.59	7
ATOM	4516 4517	CA	GLY C		36.986 38.375	99.628	11.420		61.39	6
ATOM ATOM	4518	C O	GLY C		39.121	99.110 99.708	11.745 12.520		59.43 59.88	6 8
ATOM	4519	N	SER C		38.733	97.995	11.133		77.36	7
ATOM	4520	CA	SER C		40.030	97.394	11.372		73.95	6
ATOM	4521	СВ	SER C		39.883	96.359	12.492		13.87	6
ATOM	4522	OG	SER C		38.551	95.856	12.538		13.87	8
ATOM	4523	C	SER C		40.512	96.749	10.072		73.71	6
MOTA	4524	0	SER C		39.938	96.992	9.008		75.22	8
MOTA MOTA	4525 4526	N CA	PHE C PHE C		41.570 42.044	95.948 95.290	10.138 8.937		28.88 27.11	7 6
ATOM	4527	CB	PHE C		43.339	95.290	8.455		51.61	6 6
711 OF	4041	CD	(141	±J.JJ	22.341	0.400	1.00	J ∓ • O ∓	U

MOTA MOTA	4584 4585	NH1 NH2	ARG C	134	50.173 49.741	92.749 91.211	13.668 15.332	1.00 58.08 1.00 60.44	7 7
MOTA	4586	C		134	43.570	94.828	13.643	1.00 28.37	6
ATOM ATOM	4587 4588	O N	ARG C VAL C	134	42.817 43.906	95.160 95.621	12.719 14.656	1.00 28.20 1.00 23.37	8 7
ATOM	4589	CA		135	43.402	96.976	14.800	1.00 23.37	6
ATOM	4590	CB	VAL C	135	42.484	97.063	16.037	1.00 13.87	6
MOTA	4591	CG1	VAL C	135	41.236	97.848	15.700	1.00 13.87	6
MOTA	4592	CG2	VAL C	135	42.127	95.653	16.528	1.00 13.87	6
MOTA	4593	C		135	44.584	97.953	14.953	1.00 20.23	6
ATOM	4594	0		135	45.553	97.664	15.641	1.00 19.42	8
ATOM	4595	N		136	44.509	99.099	14.294	1.00 17.38	7
ATOM ATOM	4596 4597	CA CB	ILE C	136 136	45.566 45.684	100.095 100.894	14.392 13.088	1.00 19.94 1.00 37.79	6 6
ATOM	4598	CG2	ILE C	136	46.695	100.034	13.000	1.00 37.79	6
ATOM	4599	CG1	ILE C	136	46.090	99.953	11.957	1.00 39.94	6
ATOM	4600	CD1		136	47.387	99.226	12.220	1.00 42.63	6
ATOM	4601	С		136	45.308	101.071	15.548	1.00 20.26	6
MOTA	4602	0		136	44.535	102.020	15.407	1.00 18.99	8
ATOM	4603	N	VAL C	137	45.964	100.824	16.682	1.00 25.21	7
ATOM	4604	CA	VAL C	137	45.827	101.646 100.985	17.888	1.00 25.11	6
ATOM ATOM	4605 4606	CB CG1	VAL C	137 137	46.507 46.279	100.985	19.088 20.338	1.00 16.86 1.00 15.96	6 6
ATOM	4607	CG2	VAL C	137	45.983	99.583	19.255	1.00 15.90	6
ATOM	4608	C	VAL C	137	46.454	103.003	17.684	1.00 25.80	6
MOTA	4609	O	VAL C	137	47.591	103.111	17.244	1.00 26.80	8
MOTA	4610	N	SER C	138	45.703	104.033	18.046	1.00 16.42	7
MOTA	4611	CA	SER C	138	46.108	105.426	17.881	1.00 18.38	6
MOTA	4612	CB		138	44.825	106.233	17.718	1.00 28.33	6
ATOM ATOM	4613 4614	OG C	SER C		43.729 46.982	105.459 106.007	18.193 18.998	1.00 25.47 1.00 20.62	8 6
ATOM	4615	0	SER C	138	46.548	106.007	20.145	1.00 20.62	8
ATOM	4616	N	GLN C	139	48.199	106.433	18.665	1.00 20.73	7
MOTA	4617	CA	GLN C	139	49.080	106.970	19.698	1.00 33.75	6
MOTA	4618	СВ	GLN C	139	50.535	106.576	19.443	1.00 57.86	6
MOTA	4619	CG	GLN C	139	51.270	107.377	18.388	1.00 59.42	6
ATOM	4620	CD OF	GLN C	139	52.765	107.079	18.396	1.00 61.08	6
ATOM	4621 4622	OE1 NE2	GLN C	139 139	53.183 53.574	105.925 108.122	18.295 18.515	1.00 60.50 1.00 62.00	8 7
ATOM ATOM	4623	C	GLN C		48.999	108.122	19.826	1.00 32.00	6
ATOM	4624	Ö	GLN C			109.107	19.040	1.00 30.24	8
ATOM	4625	N	ILE C			109.023	20.831	1.00 69.32	7
ATOM	4626	CA	ILE C			110.472	21.049	1.00 71.94	6
ATOM	4627	СВ		140		110.921	22.203	1.00 32.52	6
ATOM	4628	CG2	ILE C			110.632	21.853	1.00 32.85	6
ATOM ATOM	4629 4630	CG1 CD1	ILE C			110.211 110.720	23.502 24.656	1.00 31.17 1.00 28.81	6 6
ATOM	4631	CDI	ILE C			111.003	21.379	1.00 28.81	6
ATOM	4632	Ö	ILE C			110.392	22.151	1.0074.03 $1.0076.12$	8
ATOM	4633	N	HIS C			112.144	20.785	1.00 41.40	7
ATOM	4634	CA	HIS C	141	52.731	112.792	21.026	1.00 44.28	6
ATOM	4635	CB	HIS C		53.683	112.585	19.846	1.00100.71	6
ATOM	4636	CG	HIS C		53.140		18.541	1.00103.58	6
ATOM ATOM	4637 4638		HIS C			114.296 112.290	17.949 17.700	1.00105.25 1.00104.95	6 7
ATOM	4639		HIS C			112.290	16.647	1.00104.95	6
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ATOM 4661 CD PRO C 144 52.222 118.197 16.178 1.00 78.94 6 ATOM 4662 CA PRO C 144 53.898 119.904 16.500 1.00 56.24 6 ATOM 4663 CB PRO C 144 53.619 119.686 15.025 1.00 79.24 6 ATOM 4664 CG PRO C 144 53.168 118.272 15.006 1.00 79.94 6 ATOM 4665 C PRO C 144 53.867 121.377 16.886 1.00 57.78 6 ATOM 4666 O PRO C 144 52.795 121.989 16.943 1.00 58.39 8 ATOM 4667 N GLY C 145 55.043 121.943 17.150 1.00 56.07 7 ATOM 4668 CA GLY C 145 55.043 121.943 17.150 1.00 57.15 6 ATOM 4669 C GLY C 145 55.116 123.345 17.516 1.00 57.15 6 ATOM 4669 C GLY C 145 56.431 123.783 18.132 1.00 58.03 6 ATOM 4670 O GLY C 145 57.505 123.559 17.576 1.00 58.65 8 ATOM 4671 N VAL C 146 56.328 124.409 19.301 1.00 70.55 7 ATOM 4672 CA VAL C 146 57.469 124.934 20.054 1.00 71.73 6 ATOM 4674 CG1 VAL C 146 58.807 127.069 20.304 1.00 87.82 6 ATOM 4675 CG2 VAL C 146 59.045 125.699 18.241 1.00 87.33 6 ATOM 4676 C VAL C 146 56.920 125.377 21.411 1.00 87.33 6 ATOM 4677 O VAL C 146 55.961 126.139 21.457 1.00 71.68 ATOM 4679 CA TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4680 CB TYR C 147 56.984 125.318 23.814 1.0017.99 6 ATOM 4680 CB TYR C 147 56.984 125.318 23.814 1.00117.99 7 ATOM 4680 CB TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4681 CG TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 55.963 121.274 22.056 1.00 53.62 6 ATOM 4686 CZ TYR C 147 55.963 121.201 21.807 1.00 53.62 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 53.62 6 ATOM 4687 OH TYR C 147 54.201 21.001 120 21 100 53.09 8	ATOM 4662 CA PRO C 144 53.898 119.904 16.500 1.00 56.24 6 ATOM 4663 CB PRO C 144 53.619 119.686 15.025 1.00 79.24 6 ATOM 4664 CG PRO C 144 53.168 118.272 15.006 1.00 79.94 6 ATOM 4665 C PRO C 144 53.867 121.377 16.886 1.00 57.78 6 ATOM 4666 O PRO C 144 52.795 121.989 16.943 1.00 58.39 8 ATOM 4667 N GLY C 145 55.043 121.943 17.150 1.00 56.07 7 ATOM 4668 CA GLY C 145 55.043 121.943 17.150 1.00 56.07 7 ATOM 4669 C GLY C 145 55.116 123.345 17.516 1.00 57.15 6 ATOM 4669 C GLY C 145 56.431 123.783 18.132 1.00 58.03 6 ATOM 4670 O GLY C 145 57.505 123.559 17.576 1.00 58.65 8 ATOM 4671 N VAL C 146 56.328 124.409 19.301 1.00 70.55 7 ATOM 4672 CA VAL C 146 57.469 124.934 20.054 1.00 71.73 6 ATOM 4674 CG1 VAL C 146 58.084 126.164 19.321 1.00 86.38 6 ATOM 4675 CG2 VAL C 146 58.807 127.069 20.304 1.00 87.82 6 ATOM 4677 O VAL C 146 59.045 125.699 18.241 1.00 87.33 6 ATOM 4677 O VAL C 146 55.961 126.139 21.457 1.00 71.72 6 ATOM 4678 N TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4680 CB TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4681 CG TYR C 147 55.592 123.190 23.463 1.00 55.38 6 ATOM 4682 CD1 TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 55.963 123.279 23.186 1.00 55.16 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	4651 4652 4653 4654 4655 4656 4657 4658 4659	NE2 C O N CA CB CC NE CZ NH1 NH2 C O N CA CB OG C O N	ARG C ARG C ARG C SER C	141 142 142 142 142 142 142 142 142 142	52.507 52.497 51.361 53.560 53.350 54.602 54.293 54.803 56.001 57.179 57.320 58.209 52.988 53.758 51.825 51.377 50.112 50.380 52.455 52.917 52.861	114.284 114.753 115.046 116.465 117.101 118.353 118.265 119.070 118.808 117.756 119.606 117.131 117.043 117.788 118.446 119.266 120.379 119.347 120.257	16.773 21.222 21.199 21.404 21.603 22.211 23.024 24.456 24.671 24.125 23.334 24.361 20.276 19.325 20.207 18.966 19.219 20.052 18.388 19.040 17.145	1.00105.39 1.00 45.08 1.00 45.45 1.00 45.25 1.00 46.96 1.00 87.26 1.00 88.28 1.00 88.37 1.00 85.96 1.00 84.10 1.00 81.90 1.00 47.16 1.00 46.66 1.00 24.06 1.00 24.67 1.00137.30 1.00140.68 1.00 23.88 1.00 23.01 1.00 54.84	768766667677687668687
ATOM 4667 N GLY C 145 55.043 121.943 17.150 1.00 56.07 7 ATOM 4668 CA GLY C 145 55.116 123.345 17.516 1.00 57.15 6 ATOM 4669 C GLY C 145 56.431 123.783 18.132 1.00 58.03 6 ATOM 4670 O GLY C 145 57.505 123.559 17.576 1.00 58.65 8 ATOM 4671 N VAL C 146 56.328 124.409 19.301 1.00 70.55 7 ATOM 4672 CA VAL C 146 57.469 124.934 20.054 1.00 71.73 6 ATOM 4673 CB VAL C 146 58.084 126.164 19.321 1.00 86.38 6 ATOM 4674 CG1 VAL C 146 58.807 127.069 20.304 1.00 87.82 6 ATOM 4675 CG2 VAL C 146 59.045 125.699 18.241 1.00 87.33 6 ATOM 4676 C VAL C 146 56.920 125.377 21.411 1.00 71.72 6 ATOM 4677 O VAL C 146 55.961 126.139 21.457 1.00 71.68 8 ATOM 4678 N TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4680 CB TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4681 CG TYR C 147 56.107 124.229 24.423 1.00 56.96 6 ATOM 4683 CE1 TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4685 CE2 TYR C 147 53.739 122.106 22.365 1.00 53.62 6 ATOM 4685 CE2 TYR C 147 54.604 121.201 21.807 1.00 52.84 6	ATOM 4667 N GLY C 145 55.043 121.943 17.150 1.00 56.07 7 ATOM 4668 CA GLY C 145 55.116 123.345 17.516 1.00 57.15 6 ATOM 4669 C GLY C 145 56.431 123.783 18.132 1.00 58.03 6 ATOM 4670 O GLY C 145 57.505 123.559 17.576 1.00 58.65 8 ATOM 4671 N VAL C 146 56.328 124.409 19.301 1.00 70.55 7 ATOM 4672 CA VAL C 146 57.469 124.934 20.054 1.00 71.73 6 ATOM 4673 CB VAL C 146 58.084 126.164 19.321 1.00 86.38 6 ATOM 4674 CG1 VAL C 146 58.084 126.164 19.321 1.00 86.38 6 ATOM 4675 CG2 VAL C 146 59.045 125.699 18.241 1.00 87.33 6 ATOM 4676 C VAL C 146 56.920 125.377 21.411 1.00 71.72 6 ATOM 4677 O VAL C 146 56.920 125.377 21.411 1.00 71.72 6 ATOM 4678 N TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4680 CB TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4681 CG TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4682 CD1 TYR C 147 56.452 122.268 22.880 1.00 56.96 6 ATOM 4683 CE1 TYR C 147 55.5963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 54.604 121.201 22.365 1.00 53.00 6 ATOM 4688 C TYR C 147 54.604 121.201 21.887 1.00 53.00 6 ATOM 4688 C TYR C 147 54.604 121.201 21.887 1.00 53.09 8 ATOM 4689 O TYR C 147 54.604 121.201 21.887 1.00 53.09 8 ATOM 4689 O TYR C 147 57.672 126.267 25.890 1.00117.23 7 ATOM 4689 O TYR C 147 57.672 126.267 25.890 1.00121.23 8 ATOM 4689 O TYR C 147 57.672 126.267 25.890 1.00121.23 8 ATOM 4690 N PHE C 148 59.282 125.385 24.599 1.00127.73 7 ATOM 4690 CA PHE C 148 59.282 125.385 24.599 1.00127.73 7 ATOM 4691 CA PHE C 148 60.356 125.701 25.534 1.00127.40 6	ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4	4661 4662 4663 4664 4665	CA CB CG C	PRO C PRO C PRO C PRO C	144 144 144 144	52.222 53.898 53.619 53.168 53.867	118.197 119.904 119.686 118.272 121.377	16.178 16.500 15.025 15.006 16.886	1.00 78.94 1.00 56.24 1.00 79.24 1.00 79.94 1.00 57.78	6 6 6 6
ATOM 4672 CA VAL C 146 57.469 124.934 20.054 1.00 71.73 6 ATOM 4673 CB VAL C 146 58.084 126.164 19.321 1.00 86.38 6 ATOM 4674 CG1 VAL C 146 58.807 127.069 20.304 1.00 87.82 6 ATOM 4675 CG2 VAL C 146 59.045 125.699 18.241 1.00 87.33 6 ATOM 4676 C VAL C 146 56.920 125.377 21.411 1.00 71.72 6 ATOM 4677 O VAL C 146 55.961 126.139 21.457 1.00 71.68 8 ATOM 4678 N TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4679 CA TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4680 CB TYR C 147 56.107 124.229 24.423 1.00 56.96 6 ATOM 4681 CG TYR C 147 55.592 123.190 23.463 1.00 55.38 6 ATOM 4682 CD1 TYR C 147 56.452 122.268 22.880 1.00 54.18 6 ATOM 4683 CE1 TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4685 CE2 TYR C 147 53.739 122.106 22.365 1.00 53.62 6 ATOM 4686 CZ TYR C 147 54.604 121.201 21.807 1.00 52.84 6	ATOM 4672 CA VAL C 146 57.469 124.934 20.054 1.00 71.73 6 ATOM 4673 CB VAL C 146 58.084 126.164 19.321 1.00 86.38 6 ATOM 4674 CG1 VAL C 146 58.807 127.069 20.304 1.00 87.82 6 ATOM 4675 CG2 VAL C 146 59.045 125.699 18.241 1.00 87.33 6 ATOM 4676 C VAL C 146 56.920 125.377 21.411 1.00 71.72 6 ATOM 4677 O VAL C 146 55.961 126.139 21.457 1.00 71.68 8 ATOM 4678 N TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4679 CA TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4680 CB TYR C 147 56.107 124.229 24.423 1.00 56.96 6 ATOM 4681 CG TYR C 147 56.452 122.268 22.880 1.00 55.38 6 ATOM 4683 CE1 TYR C 147 55.592 123.190 23.463 1.00 55.38 6 ATOM 4684 CD2 TYR C 147 56.452 122.268 22.880 1.00 54.18 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 55.62 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 55.62 6 ATOM 4688 CZ TYR C 147 54.230 123.090 23.186 1.00 53.00 6 ATOM 4688 CZ TYR C 147 54.230 123.090 23.186 1.00 53.00 6 ATOM 4686 CZ TYR C 147 54.230 123.090 23.186 1.00 53.00 6 ATOM 4688 C TYR C 147 54.230 123.090 23.186 1.00 53.62 6 ATOM 4688 C TYR C 147 54.230 123.090 23.186 1.00 53.09 8 ATOM 4689 O TYR C 147 54.604 121.201 21.807 1.00 52.84 6 ATOM 4689 O TYR C 147 58.020 125.703 24.856 1.00119.45 6 ATOM 4689 O TYR C 147 57.672 126.267 25.890 1.00127.30 7 ATOM 4691 CA PHE C 148 59.282 125.385 24.599 1.00127.73 7 ATOM 4691 CA PHE C 148 60.356 125.701 25.534 1.00127.40 6 ATOM 4692 CB PHE C 148 60.356 125.701 25.534 1.00127.40 6	ATOM 4 ATOM 4 ATOM 4 ATOM 4	4667 4668 4669 4670	N CA C O	GLY C GLY C GLY C	145 145 145 145	55.043 55.116 56.431 57.505	121.943 123.345 123.783 123.559	17.150 17.516 18.132 17.576	1.00 56.07 1.00 57.15 1.00 58.03 1.00 58.65	7 6 6 8
ATOM 4677 O VAL C 146 55.961 126.139 21.457 1.00 71.68 8 ATOM 4678 N TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4679 CA TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4680 CB TYR C 147 56.107 124.229 24.423 1.00 56.96 6 ATOM 4681 CG TYR C 147 55.592 123.190 23.463 1.00 55.38 6 ATOM 4682 CD1 TYR C 147 56.452 122.268 22.880 1.00 54.18 6 ATOM 4683 CE1 TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4685 CE2 TYR C 147 53.739 122.106 22.365 1.00 53.62 6 ATOM 4686 CZ TYR C 147 54.604 121.201 21.807 1.00 52.84 6	ATOM 4677 O VAL C 146 55.961 126.139 21.457 1.00 71.68 8 ATOM 4678 N TYR C 147 57.503 124.911 22.512 1.00117.29 7 ATOM 4679 CA TYR C 147 56.984 125.318 23.814 1.00117.99 6 ATOM 4680 CB TYR C 147 56.107 124.229 24.423 1.00 56.96 6 ATOM 4681 CG TYR C 147 55.592 123.190 23.463 1.00 55.38 6 ATOM 4682 CD1 TYR C 147 56.452 122.268 22.880 1.00 54.18 6 ATOM 4683 CE1 TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4685 CE2 TYR C 147 53.739 122.106 22.365 1.00 53.62 6 ATOM 4686 CZ TYR C 147 54.604 121.201 21.807 1.00 52.84 6 ATOM 4687 OH TYR C 147 54.604 121.201 21.807 1.00 52.84 6 ATOM 4688 C TYR C 147 54.104 120.196 21.022 1.00 53.09 8 ATOM 4689 O TYR C 147 57.672 126.267 25.890 1.00119.45 6 ATOM 4690 N PHE C 148 59.282 125.385 24.599 1.00127.73 7 ATOM 4691 CA PHE C 148 60.356 125.701 25.534 1.00127.40 6 ATOM 4692 CB PHE C 148 60.178 127.120 26.072 1.00 72.62 6	ATOM 4 ATOM 4 ATOM 4 ATOM 4	4672 4673 4674 4675	CA CB CG1 CG2	VAL C VAL C VAL C	146 146 146 146	57.469 58.084 58.807 59.045	124.934 126.164 127.069 125.699	20.054 19.321 20.304 18.241	1.00 71.73 1.00 86.38 1.00 87.82 1.00 87.33	6 6 6
ATOM 4683 CE1 TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4685 CE2 TYR C 147 53.739 122.106 22.365 1.00 53.62 6 ATOM 4686 CZ TYR C 147 54.604 121.201 21.807 1.00 52.84 6	ATOM 4683 CE1 TYR C 147 55.963 121.274 22.056 1.00 53.00 6 ATOM 4684 CD2 TYR C 147 54.230 123.090 23.186 1.00 55.16 6 ATOM 4685 CE2 TYR C 147 53.739 122.106 22.365 1.00 53.62 6 ATOM 4686 CZ TYR C 147 54.604 121.201 21.807 1.00 52.84 6 ATOM 4687 OH TYR C 147 54.104 120.196 21.022 1.00 53.09 8 ATOM 4688 C TYR C 147 58.020 125.703 24.856 1.00119.45 6 ATOM 4689 O TYR C 147 57.672 126.267 25.890 1.00121.23 8 ATOM 4690 N PHE C 148 59.282 125.385 24.599 1.00127.73 7 ATOM 4691 CA PHE C 148 60.356 125.701 25.534 1.00127.40 6 ATOM 4692 CB PHE C 148 60.178 127.120 26.072 1.00 72.62 6	ATOM 4 ATOM 4 ATOM 4 ATOM 4 ATOM 4	4677 4678 4679 4680 4681	O N CA CB CG	VAL C TYR C TYR C TYR C TYR C	146 147 147 147 147	55.961 57.503 56.984 56.107 55.592	126.139 124.911 125.318 124.229 123.190	21.457 22.512 23.814 24.423 23.463	1.00 71.68 1.00117.29 1.00117.99 1.00 56.96 1.00 55.38	8 7 6 6
	ATOM 4688 C TYR C 147 58.020 125.703 24.856 1.00119.45 6 ATOM 4689 O TYR C 147 57.672 126.267 25.890 1.00121.23 8 ATOM 4690 N PHE C 148 59.282 125.385 24.599 1.00127.73 7 ATOM 4691 CA PHE C 148 60.356 125.701 25.534 1.00127.40 6 ATOM 4692 CB PHE C 148 60.178 127.120 26.072 1.00 72.62 6	ATOM 4 ATOM 4 ATOM 4 ATOM 4	4683 4684 4685 4686	CE1 CD2 CE2 CZ	$\begin{array}{ccc} {\rm TYR} & {\rm C} \\ {\rm TYR} & {\rm C} \\ {\rm TYR} & {\rm C} \\ {\rm TYR} & {\rm C} \end{array}$	147 147 147 147	55.963 54.230 53.739 54.604	121.274 123.090 122.106 121.201	22.056 23.186 22.365 21.807	1.00 53.00 1.00 55.16 1.00 53.62 1.00 52.84	6 6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	46999012345678901234471123447122345678901234567890123447112344712223447333345678901234474711234471223447333345678901234474711234471223447473333456789012344747474747474747474747474747474747474	CE1 CE2 CC C O N CA CB CC C O N CC CC C O N CC CC CC C O N CC CC CC C C C	PHE C 148 PHE C 148 PHE C 148 PHE C 148 PHE C 149 THR C 150 PRO C 151 ASP C 152 PRO C 153 ALA C 154 ARG C 154	60.239 129.032 22.820 1.00 72.68 61.859 129.995 24.290 1.00 73.89 61.234 129.956 23.056 1.00 73.37 60.465 124.672 26.653 1.00127.51 60.867 123.547 26.365 1.00129.30 60.129 125.027 27.899 1.00 41.88 60.218 124.066 29.020 1.00 40.35 60.313 122.622 28.508 1.00 45.51 59.144 122.319 27.751 1.00 45.70 60.481 121.638 29.638 1.00 45.67 61.430 124.263 29.932 1.00 39.60 62.506 124.636 29.9468 1.00 39.78 61.274 123.994 31.244 1.00 43.39 60.009 123.690 31.934 1.00 74.13 62.356 124.134 32.226 1.00 42.51 61.624 124.041 33.559 1.00 73.28 60.504 123.118 33.242 1.00 74.47 63.445 123.072 32.100 1.00 41.93 63.175 121.882 32.204 1.00 41.14 64.675 123.523 31.888 1.00 60.62 65.818 122.636 31.750 1.00 61.64 67.095 123.459 31.661 1.00 82.47 68.284 122.636 31.246 1.00 83.64 68.498 121.571 31.861 1.00 85.08 69.005 123.054 30.310 1.00 83.86 66.200 122.190 34.060 1.00 62.64 66.200 122.190 34.060 1.00 62.64 66.200 122.190 34.060 1.00 62.64 66.200 122.190 34.060 1.00 53.51 65.413 119.745 31.515 1.00152.73 65.605 119.475 33.907 1.00 53.78 65.331 118.146 33.205 1.00153.68 65.910 118.364 31.837 1.00152.73 65.636 119.280 35.965 1.00 52.96 68.034 119.590 34.077 1.00113.68 68.890 119.445 34.742 1.00 53.62 66.890 119.445 34.742 1.00 53.62 66.890 119.445 34.742 1.00 53.62 66.890 119.445 34.742 1.00 53.62 66.890 119.445 34.742 1.00 53.62 66.890 119.445 34.742 1.00 53.62 66.890 119.445 34.742 1.00 53.62 66.891 119.485 34.754 1.00113.39 70.404 120.125 33.817 1.00 30.18 69.232 120.458 36.002 1.00113.68 68.842 119.992 37.075 1.00113.69 69.532 122.675 36.953 1.00 60.59 70.924 122.944 37.515 1.00102.11 71.529 121.762 38.255 1.00103.38 70.707 121.387 39.481 1.00105.00 71.391 120.388 40.300 1.00106.91	66668766866876666876668868766668766687666676
ATOM ATOM ATOM ATOM ATOM	4735 4736 4737 4738 4739	N CA CB CG CD NE CZ	ARG C 154 ARG C 154 ARG C 154 ARG C 154	69.600 121.724 35.854 1.00 60.59 69.532 122.675 36.953 1.00 60.51 70.924 122.944 37.515 1.00102.11 71.529 121.762 38.255 1.00103.38 70.707 121.387 39.481 1.00105.00	7 6 6 6

ATOM ATOM ATOM ATOM	4752 4753 4754 4755	O N CA C	PRO C 15 GLY C 15 GLY C 15 GLY C 15	67 67			35.637 34.356 33.188 31.918	1.00123.37 1.00 79.22 1.00 78.18 1.00 78.05	8 7 6 6
MOTA	4756 4757	N O	GLY C 15 ARG C 15			5.094 5.895	31.082 31.778	1.00 78.51 1.00 53.95	8 7
ATOM ATOM	4758	CA	ARG C 15			5.477	30.597	1.00 53.98	6
MOTA	4759	СВ	ARG C 15	7 63	.700 12	7.418	30.360	1.00 62.64	6
ATOM	4760	CG	ARG C 15			3.658	31.234	1.00 62.58	6 6
ATOM ATOM	4761 4762	CD NE	ARG C 15 ARG C 15			3.383 9.558	32.518 33.379	1.00 62.90 1.00 62.14	7
MOTA	4763	CZ	ARG C 15			9.572	34.565	1.00 61.89	6
ATOM	4764	NH1	ARG C 15			3.470	35.040	1.00 61.21	7
ATOM ATOM	4765 4766	NH2 C	ARG C 15 ARG C 15			0.688 6.362	35.282 29.269	1.00 61.30 1.00 54.44	7 6
ATOM	4767	0	ARG C 15			6.893	29.096	1.00 54.30	8
ATOM	4768	N	TYR C 15	3 65	.030 12	5.655	28.327	1.00121.76	7
ATOM	4769	CA	TYR C 15			5.473	26.994	1.00122.22	6
ATOM ATOM	4770 4771	CB CG	TYR C 15 TYR C 15		.222 124 .461 123	4.088	26.830 27.486	1.00123.23 1.00124.02	6 6
ATOM	4772	CD1	TYR C 15			2.998	27.575	1.00124.12	6
MOTA	4773	CE1	TYR C 15			1.966	28.181	1.00125.39	6
ATOM ATOM	4774 4775	CD2 CE2	TYR C 15 TYR C 15			1.874 0.833	28.016 28.621	1.00125.08 1.00126.19	6 6
ATOM	4776	CEZ	TYR C 15			0.885	28.703	1.00126.37	6
ATOM	4777	OH	TYR C 15	3 63	.365 11	9.860	29.310	1.00126.79	8
ATOM	4778	C	TYR C 15			5.649	25.967	1.00121.49	6 8
ATOM ATOM	4779 4780	O N	TYR C 15 ILE C 15			6.041 5.356	26.300 24.714	1.00121.07 1.00 29.94	7
MOTA	4781	CA	ILE C 15			5.500	23.648	1.00 29.68	6
MOTA	4782	СВ	ILE C 15		.154 12		22.764	1.00 68.63	6
ATOM ATOM	4783 4784	CG2 CG1	ILE C 15 ILE C 15			7.066 7.908	21.902 23.642	1.00 68.71 1.00 69.14	6 6
ATOM	4785	CD1	ILE C 15			9.105	22.855	1.00 70.48	6
ATOM	4786	C	ILE C 15	63	.781 12	4.269	22.757	1.00 29.29	6
ATOM	4787	0	ILE C 15			3.804	22.231 22.596	1.00 28.38 1.00 62.13	8 7
ATOM ATOM	4788 4789	N CA	ALA C 16 ALA C 16		.574 123 .358 123	3.746 2.584	22.596	1.00 62.13	6
ATOM	4790	CB	ALA C 16			1.492	22.576	1.00 13.87	6
ATOM	4791	C	ALA C 16			3.014	20.589	1.00 63.06	6
ATOM ATOM	4792 4793	N O	ALA C 16 SER C 16		.536 12 .847 12	3.767 2.554	20.749 19.399	1.00 63.00 1.00 52.02	8 7
ATOM	4794	CA	SER C 16		.082 12		18.215	1.00 53.53	6
MOTA	4795	СВ	SER C 16	1 61	.958 12	3.713	17.264	1.00 35.62	6
ATOM	4796	OG	SER C 16		.206 12 .604 12		16.171	1.00 33.38 1.00 55.90	8 6
MOTA MOTA	4797 4798	C O	SER C 16 SER C 16		.330 12		17.542 16.744	1.00 56.86	8
ATOM	4799	N	ILE C 16	2 59	.389 12	1.167	17.876	1.00 66.20	7
ATOM	4800	CA	ILE C 16		.800 11		17.321	1.00 69.04	6
ATOM ATOM	4801 4802	CB CG2	ILE C 16 ILE C 16			9.631 8.604	18.001 17.196	1.00110.64 1.00110.49	6 6
ATOM	4803	CG1				9.075	19.408	1.00112.67	6
ATOM	4804	CD1				9.892	20.279	1.00115.54	6
ATOM ATOM	4805 4806	C O	ILE C 16 ILE C 16		.595 11 .684 12	9.997 1.048	15.802 15.184	1.00 70.21 1.00 70.59	6 8
ATOM	4807	N	ILE C 16			8.851	15.205	1.00 55.46	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	48090 481123 4811123 4811123 4811123 4811123 4811123 4811123 4811123 4811123 4811123 4811123 4811123 4811123 48112		LEU C 165 LEU C 165 PRO C 166 LYS C 167 LYS C 168 ARG C 168	58.113 118.776 59.297 118.056 59.951 118.969 60.352 117.705 59.941 116.607 56.794 118.036 56.397 117.203 56.116 118.314 56.844 118.802 54.830 117.739 54.944 117.723 56.420 117.813 54.465 116.377 53.383 116.198 55.363 115.417 55.172 114.069 54.306 113.221 52.809 113.557 52.093 112.712 52.213 113.320 56.557 113.476 57.412 113.713 56.799 112.698 55.740 112.149 58.087 112.049 57.676 110.812 58.897 111.725 59.954 112.310 58.897 111.725 59.954 112.310 58.897 110.795 59.085 110.433 58.792 107.916 58.399 110.795 59.085 110.433 58.792 107.916 58.399 110.795 59.085 110.433 58.792 107.916 58.399 110.795 59.085 110.433 58.792 107.916 58.399 110.795 59.085 110.433 58.792 107.916 58.399 110.795 59.085 110.433 58.792 107.916 58.399 113.829 57.676 115.305 56.342 115.305 56.342 115.305 56.342 115.305 56.342 115.305 56.342 115.305 56.342 115.305	13.17 12.104 14.166 15.120 13.537 14.353 12.400 11.219 11.970 10.440 10.180 12.542 13.099 12.375 12.893 11.951 11.928 10.891 13.3012 12.158 14.075 14.942 14.348 15.132 15.955 11.957 10.544 11.512 10.967 11.477 10.015 9.046 10.237 9.335 8.836 8.191 7.376 6.692 5.727 5.325 5.161	1.00 58.28 1.00108.27 1.00109.24 1.00109.10 1.00109.92 1.00 60.36 1.00 60.87 1.00170.37 1.00206.16 1.00172.36 1.00206.20 1.00172.85 1.00206.20 1.00173.08 1.00 84.53 1.00 86.24 1.00185.30 1.00185.30 1.00185.64 1.00 86.63 1.00 86.89 1.00129.88 1.00 63.26 1.00130.73 1.00 63.26 1.00131.07 1.00131.68 1.00 63.96 1.00154.27 1.00101.09 1.00101.62 1.00102.16 1.00154.66 1.00153.74 1.00154.66 1.00208.87 1.00153.30 1.00155.54 1.00153.30 1.00153.41 1.00208.87	666666876666876666687666687666667687666676776
ATOM ATOM	4850 4851	CD NE	ARG C 168 ARG C 168	56.342 115.325 56.202 116.607	7.376	1.00150.54 1.00151.71	6 7
ATOM	4853	NH1	ARG C 168	54.495 115.898	5.325	1.00155.10	7
ATOM ATOM	4854 4855	NH2 C	ARG C 168 ARG C 168	55.272 118.049 59.736 115.157			6
ATOM ATOM	4856 4857	O N	ARG C 168 GLY C 169	59.030 115.699 60.880 115.685		1.00208.87 1.00101.34	8 7
ATOM	4858	CA	GLY C 169	61.369 116.945	10.067	1.00 96.06	6
ATOM ATOM	4859 4860	С 0	GLY C 169 GLY C 169	62.264 116.774 62.176 115.768		1.00 92.86 1.00 93.47	6 8
ATOM ATOM	4861 4862	N CD	PRO C 170 PRO C 170	63.155 117.733 63.788 118.589	11.549	1.00 79.40 1.00 58.08	7 6
ATOM	4863	CA	PRO C 170	64.032 117.597		1.00 58.08	6

ATOM 486 ATOM 486 ATOM 486 ATOM 486 ATOM 487 ATOM 488 ATOM 489 ATOM 489 ATOM 490 ATO	9 CA 0 CB 0 CB 1 CCB 2 CD2 3 CE2 4 CE3 5 CD1 6 CZ2 6 CZ3 7 CCB 6 CZ3 7 CCB 6 C	TRP C 171 TRP C 172 TRP C 172 TRP C 172 TRP C 172 TRE C 173 ASP C 174 LEU C 175 GLU C 176 GLU C 1775 GLU C 1775 GLU C 176 GLU C 1775	63.667 117.53 63.265 117.97 62.937 116.74 62.826 116.96 61.630 116.72 63.844 117.21 63.353 117.34 61.063 117.21 59.360 116.76 59.752 117.00 64.474 118.72 65.439 118.11 64.422 120.05 65.502 120.92 65.619 122.18 66.528 123.23 66.152 121.77 66.485 122.95 65.339 121.38 64.232 121.42 66.456 121.71 66.447 122.21 66.456 121.71 66.447 122.21 66.740 121.09 65.505 120.34 64.542 120.99 65.505 120.34 64.542 120.99 65.498 119.10 67.500 123.31 68.668 123.10 67.092 124.48 68.032 125.58 67.456 126.91 66.724 127.04 66.242 128.47 67.632 126.65 68.232 125.67 67.301 126.00 69.440 125.39 69.693 125.42 70.099 124.03 70.397 123.94 70.953 122.59 70.099 124.03 70.397 123.94 70.953 122.59 70.099 124.03 70.397 123.94 70.953 122.59 70.099 124.03 70.397 123.94 70.953 122.59 70.099 124.03 70.397 123.94 70.953 122.59 70.325 121.91 70.750 126.43 71.828 126.50 70.425 127.22 70.325 121.91	3 16.415 17.265 18.741 19.519 7 20.858 19.616 20.891 21.886 22.236 21.556 21.556 21.556 21.556 21.556 21.776 21.776 21.7765 22.1776 22.177	1.00 62.07 1.00 58.42 1.00 73.02 1.00 71.24 1.00 70.57 1.00 69.79 1.00 69.74 1.00 70.14 1.00 68.62 1.00 68.21 1.00 68.40 1.00 57.22 1.00 57.05 1.00 46.00 1.00 43.86 1.00 53.44 1.00 53.18 1.00 53.18 1.00 53.90 1.00 43.80 1.00 43.80 1.00 75.82 1.00 77.50 1.00 28.66 1.00 75.82 1.00 77.50 1.00 79.36 1.00 79.36 1.00 79.36 1.00 79.36 1.00 27.71 1.00 29.08 1.00 27.68 1.00 27.71 1.00 27.68 1.00 52.87 1.00 53.81 1.00 52.87 1.00 97.41 1.00189.79 1.00190.45 1.00190.45 1.00190.45 1.00190.45 1.00190.45	7666666676668766666876668868766668876668876668868766
	16 CA 17 CB 18 CG1	VAL C 176 VAL C 176 VAL C 176		2 27.008 3 27.649 9 26.653		

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	49212344949223449494949494949494949494949494	C O N CA CB CG C O N CA CB CG CC CO N CA CB CG CC CO N CA CB CG CC CO N CA CB CC CC O N CA CB CC CC CC O N CA CB CC CC CC O N CA CB CC	VAL C 18: THR C 18:	5 71.473 7 73.418 7 74.213 7 74.934 7 75.801 7 75.235 7 75.312 8 77.059 7 75.312 8 77.059 7 74.11 8 78.648 9 80.429 79.622 79.622 79.628 79.316 0 78.424 0 78.811 1 77.590 1 75.47 1 75.970 2 74.174 2 73.254 2 72.965 72.965 72.965 73.108 73.398 73.398 73.108 73.398 73.108 73.398 73.108 73.108 73.398 73.106 74.183 74.183 74.183 75.90 74.166 77.059 74.174 77.059 74.174	126.934 127.301 126.533 125.409 125.258 125.413 124.598 127.319 128.547 126.584 127.180 126.249 127.404 128.541 126.325 125.283 124.068 126.077 124.932 127.164 127.065 128.207 129.018 129	28.096 29.041 27.963 28.916 28.174 27.171 25.812 25.341 29.652 30.505 31.330 30.461 30.163 30.215 29.720 30.744 27.308 26.570 25.118 24.277 25.381 27.748 26.986 25.391 25.301 27.748 26.986 25.391 25.301 27.748 26.391 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308 27.748 27.308	1.00113.46 1.00113.99 1.00114.43 1.00115.97 1.00 69.53 1.00 69.55 1.00 70.88 1.00 72.04 1.00 72.21 1.00117.14 1.00118.00 1.00 86.35 1.00 86.37 1.00 86.27 1.00 86.17 1.00124.26 1.00 83.67 1.00 83.67 1.00 83.11 1.00124.15 1.00124.27 1.00190.01 1.00188.94 1.00187.77 1.00101.50 1.00 98.68 1.00 85.33 1.00 86.11 1.00 85.64 1.00 97.12 1.00 98.03 1.00 85.64 1.00 97.12 1.00 98.03 1.00 88.90 1.00 88.65 1.00 89.47 1.00 47.30 1.00 88.90 1.00 88.65 1.00 52.78 1.00 57.05 1.00 57.05 1.00 57.23 1.00 52.66 1.00 52.53	6876668868766687668687666668766668
ATOM ATOM ATOM	4961 4962 4963	CA CB OG1	THR C 183 THR C 183 THR C 183	73.398 73.811 74.944	125.098 123.873 124.217	21.499 22.351 23.156	1.00 52.78 1.00 57.05 1.00 57.23	6 6 8
ATOM	4965	С	THR C 18	3 72.166	124.752	20.658	1.00 52.66	6
ATOM ATOM	4966 4967	O N	THR C 18: MET C 18:		124.630 124.621	19.354	1.00 52.53	7
ATOM ATOM	4968 4969	CA CB	MET C 18		124.274 125.124	18.409 17.139	1.00118.73 1.00 40.44	6 6
ATOM	4970	CG	MET C 18	4 70.168	125.682 124.596	16.555 15.491	1.00 36.98 1.00 33.84	6 16
MOTA MOTA	4971 4972	SD CE	MET C 18	4 69.676	125.144	13.911	1.00 34.18	6
MOTA	4973	C	MET C 18		122.805	18.088 17.353	1.00120.26 1.00121.69	6 8
MOTA MOTA	4974 4975	O N	MET C 18 LYS C 18		122.489 121.908	18.651	1.00121.69	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	49778 49778 4978 49883 49883 49885 49885 49885 49899 4989 4999	CG2 C O N CAB CGD1 C O N CAB CGD CC	PHE C 191 PHE C 191 PHE C 191	70.981 120.488 18.39 71.015 119.713 19.71 70.001 120.169 20.73 70.298 119.579 22.10 69.505 120.306 23.18 69.807 119.831 24.55 69.997 119.834 17.43 69.037 119.193 17.84 70.244 119.999 16.14 69.397 119.387 15.14 69.662 119.980 13.76 68.491 119.700 12.86 69.889 121.475 13.87 69.828 117.928 15.18 71.011 117.645 15.36 68.875 117.010 15.03 69.146 115.573 15.08 69.146 115.573 15.08 69.404 114.964 13.68 70.368 115.777 12.84 70.076 115.899 11.55 71.370 116.274 13.34 70.076 115.899 11.55 72.506 114.332 16.38 72.981 112.904 16.08 74.157 112.423 16.32 71.362 114.657 15.53 72.506 114.332 16.38 72.981 112.904 16.08 74.602 111.012 16.53 75.708 110.479 17.44 73.668 115.309 16.23 74.601 117.500 16.55 74.513 118.170 15.24 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 74.581 118.554 17.69 75.682 119.285 17.83 75.814 120.340 18.83 76.478 119.807 20.09 76.921 120.904 21.09 77.932 120.398 22.09 78.485 121.547 22.99 79.555 121.110 23.86 76.690 121.426 18.26 77.913 121.319 18.26 77.932 120.398 22.09 76.691 123.570 15.5 75.211 123.720 15.11 76.674 122.467 17.69 76.843 123.553 17.00 76.921 120.904 21.09 77.932 120.398 22.09 78.485 121.547 22.99 79.555 121.110 23.86 76.690 121.426 18.26 77.913 121.319 18.26 77.932 120.398 22.00 76.921 120.904 21.09 76.691 123.570 15.5 75.211 123.720 15.51 74.629 124.976 15.00 74.444 122.606 14.8 73.309 125.714 14.5	8 1.00112.77 6 7 1.00113.93 6 8 1.00115.35 6 5 1.00116.49 7 5 1.00 67.41 6 8 1.00 67.37 8 4 1.00 63.54 7 6 1.00 65.54 6 7 1.00 44.28 6 8 1.00 43.86 6 8 1.00 43.86 6 8 1.00 70.21 8 8 1.00 70.21 8 8 1.00 73.26 7 8 1.00 74.74 6 8 1.00 89.09 8 8 1.00 89.09 8 8 1.00 91.65 6 8 1.00 91.65 6 8 1.00132.01 6 8 1.00133.24 6 8 1.00137.85 7 9 1.0010.67 6 10 1.0010.93 6 10 1.0010.93 6 10 1.00208.87 <
ATOM	5031	C	PHE C 191	76.433 124.890 17.6	

ATOM 5081 CB ARG C 198 76.405 133.646 11.025 1.00 58.75 6 ATOM 5082 CG ARG C 198 77.378 134.771 10.830 1.00 60.92 6	ATOM 5032 ATOM 5033 ATOM 5034 ATOM 5035 ATOM 5036 ATOM 5036 ATOM 5037 ATOM 5038 ATOM 5039 ATOM 5040 ATOM 5041 ATOM 5042 ATOM 5042 ATOM 5043 ATOM 5044 ATOM 5045 ATOM 5046 ATOM 5047 ATOM 5048 ATOM 5050 ATOM 5051 ATOM 5051 ATOM 5052 ATOM 5052 ATOM 5053 ATOM 5053 ATOM 5054 ATOM 5055 ATOM 5055 ATOM 5056 ATOM 5056 ATOM 5057 ATOM 5058 ATOM 5056 ATOM 5060 ATOM 5061 ATOM 5061 ATOM 5062 ATOM 5063 ATOM 5063 ATOM 5064 ATOM 5065 ATOM 5066 ATOM 5067 ATOM 5068 ATOM 5067 ATOM 5067 ATOM 5067 ATOM 5070 ATOM 5071 ATOM 5072 ATOM 5073 ATOM 5073 ATOM 5076 ATOM 5076 ATOM 5077 ATOM 5078 ATOM 5077 ATOM 5078 ATOM 5077	O PHE C 191 N PRO C 192 CD PRO C 192 CA PRO C 192 CB PRO C 192 CG PRO C 192 O PRO C 192 O PRO C 192 N LEU C 193 CA LEU C 193 CB LEU C 193 CB LEU C 193 CD1 LEU C 193 CD2 LEU C 193 O LEU C 194 CA VAL C 194 CA VAL C 194 CA VAL C 194 CG1 VAL C 194 CG2 VAL C 194 CG1 VAL C 194 CG2 VAL C 194 C VAL C 194 C VAL C 194 C VAL C 195 CA LEU C 195 CA LEU C 195 CA LEU C 195 CA LEU C 195 CD1 LEU C 195 CD2 LEU C 195 CD4 LEU C 195 CD5 CD6 LEU C 195 CD7 CD7 CD8 LEU C 196 CD8 LEU C 196 CD96 CD97 CD97 CD97 CD97 CD97 CD97 CD97 CD97	75.267 125.113 77.392 125.798 78.832 125.719 77.037 127.108 78.294 127.929 79.385 126.904 75.819 127.660 75.675 127.450 74.955 128.378 73.741 128.907 72.665 129.118 71.231 129.532 71.195 131.005 70.715 128.716 73.911 130.171 73.050 130.499 75.012 130.882 75.244 132.103 76.411 132.910 76.099 134.399 76.679 132.452 75.591 131.726 75.346 132.489 76.150 130.527 76.571 129.995 77.160 128.603 77.876 128.058 79.092 128.899 78.288 126.624 75.461 129.928 75.594 130.463 77.876 128.058 79.092 128.899 78.288 126.624 75.461 129.928 75.594 130.463 77.876 128.058 79.092 128.899 78.288 126.624 75.461 129.928 75.594 130.463 77.876 128.058 79.092 128.899 78.288 126.624 75.461 129.928 75.594 130.463 74.370 129.252 73.248 129.139 72.178 128.167 70.962 128.063 71.049 126.752 69.660 128.128 72.178 128.167 70.962 128.063 71.049 126.752 69.660 128.128 72.178 133.264 71.039 132.812 71.142 133.690 69.645 132.920 72.786 133.408 72.196 134.052 74.106 133.357	14.077 15.054 16.257 14.450 11.701 10.834 11.809	1.00 52.15 1.00 38.88 1.00182.54 1.00 37.55 1.00182.33 1.00183.06 1.00 35.77 1.00 35.21 1.00 53.82 1.00 51.81 1.00143.95 1.00143.18 1.00143.77 1.00143.01 1.00 50.43 1.00 50.27 1.00107.22 1.00 95.52 1.00 96.45 1.00105.88 1.00104.99 1.00 69.97 1.00 69.97 1.00 69.97 1.00 66.47 1.00 66.47 1.00 66.59 1.00 19.54 1.00 19.54 1.00 19.54 1.00 66.47 1.00 66.59 1.00 44.73 1.00 44.26 1.00 43.98 1.00 44.73 1.00 44.26 1.00 43.98 1.00 44.34 1.00 55.65 1.00 52.47 1.00 52.47 1.00 52.47 1.00 16.86 1.00 13.87 1.00 13.87 1.00 53.89 1.00 54.03 1.00 55.09	87666668766668766668766668766668766668766687
ATOM 5079 N ARG C 198 74.106 133.357 11.809 1.00 85.09 7 ATOM 5080 CA ARG C 198 74.954 134.099 10.897 1.00 87.06 6 ATOM 5081 CB ARG C 198 76.405 133.646 11.025 1.00 58.75 6 ATOM 5082 CG ARG C 198 77.378 134.771 10.830 1.00 60.92 6	ATOM 5075	CD1 LEU C 197	71.142 133.690	16.257	1.00 14.44	6
	ATOM 5076	CD2 LEU C 197	69.645 132.920	14.450	1.00 13.87	6
	ATOM 5077	C LEU C 197	72.786 133.408	11.701	1.00 53.89	6
	ATOM 5079	N ARG C 198	74.106 133.357	11.809	1.00 85.09	7
	ATOM 5080	CA ARG C 198	74.954 134.099	10.897	1.00 87.06	6
	ATOM 5081	CB ARG C 198	76.405 133.646	11.025	1.00 58.75	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5088 5089 5099	CG2 C O N CA CB CG11 C O N CA C O N CA CB CG11 C C O N CA C C C C C C C C C C C C C C C C C	ASP C 203 ASP C 203 ASP C 204 GLN C 204	74.462 133.854 74.060 134.787 74.491 132.591 74.039 132.222 73.850 130.711 73.030 130.435 75.209 130.015 72.702 132.865 72.542 133.669 71.738 132.503 70.397 133.053 69.554 132.642 69.452 131.141 68.393 130.920 69.101 130.350 70.447 134.588 69.625 135.178 71.423 135.226 71.554 136.671 71.935 137.417 72.865 138.220 71.197 137.172 71.468 137.827 70.633 137.206 69.168 137.072 68.442 135.991 67.096 135.862 68.504 138.029 67.149 137.908 66.454 136.819 65.109 136.678 72.927 137.597 73.511 136.618 73.511 138.507 74.908 138.415 75.796 138.016 75.174 138.364 74.906 139.558 74.908 139.558 74.908 139.719 75.044 140.806 76.235 139.580 76.832 140.703 78.328 140.777 79.041 141.959 78.924 141.968 77.823 141.894 80.061 142.066 76.219 142.549 75.641 142.669 75.018 143.986	9.482 8.788 9.067 7.736 7.578 6.322 7.489 7.504 6.597 8.338 8.217 9.778 10.841 8.541 8.541 8.541 8.704 8.593 9.861 9.857 10.939 12.212 13.331 13.016 13.487 11.978 12.257 11.978 12.465 12.257 12.517 12.517 12.517 12.517 12.517 12.517 12.658 13.673 13.673 13.673 13.673 14.628 15.756 14.628 16.799 16.687	1.00 88.21 1.00 88.90 1.00 65.98 1.00 66.39 1.00 50.32 1.00 50.24 1.00 67.56 1.00 69.04 1.00 64.55 1.00 66.04 1.00 77.26 1.00 76.80 1.00 76.80 1.00 76.36 1.00 67.17 1.00 58.18 1.00 59.18 1.00 59.18 1.00 59.18 1.00 67.76 1.00 67.76 1.00 67.76 1.00 66.74 1.00 66.74 1.00 66.74 1.00 66.74 1.00 66.74 1.00 66.78 1.00 67.11 1.00 66.74 1.00 66.78 1.00 77.83 1.00 77.83 1.00 77.83 1.00 77.83 1.00 77.83 1.00 77.83 1.00 77.83 1.00 77.83 1.00 101.22 1.00103.17 1.00128.66 1.00128.95 1.00145.69 1.00145.69 1.00107.70 1.00108.06 1.00108.82 1.00108.82 1.00108.42 1.00108.42 1.00108.42 1.00108.42 1.00147.43 1.00 47.05 1.00 47.71	68766668766668766876666666666868766688868766687687
ATOM ATOM ATOM	5135 5136 5137	NE2 C O	GLN C 204 GLN C 204 GLN C 205 GLU C 205 GLU C 205 GLU C 205 GLU C 205	76.196 142.060 76.219 142.549	15.756 14.628	1.00146.63 1.00147.43	6 8

ATOM ATOM ATOM	5144 5145 5146 5147	OE2 C O	GLU C 205 GLU C 205	73.708 72.690	143.954 144.452	18.905 15.910 16.393	1.00155.58 1.00 47.75 1.00 47.03	8 6 8 7
ATOM ATOM	5147	N CA	THR C 206	73.725 72.500		14.706 13.913	1.00142.36 1.00143.43	6
ATOM	5149	CB	THR C 206	72.783	142.845	12.447	1.00106.22	6
ATOM	5150	OG1	THR C 206	71.713		11.600	1.00106.37	8
ATOM ATOM	5151 5152	CG2 C	THR C 206	72.885 71.636		12.346 14.621	1.00105.31 1.00143.64	6 6
ATOM	5152	0	THR C 206	70.408		14.505	1.00143.64	8
ATOM	5154	N	LEU C 207	72.313		15.362	1.00 99.99	7
MOTA	5155	CA	LEU C 207	71.677	140.325	16.139	1.00100.36	6
ATOM	5156	CB	LEU C 207	72.574		16.179	1.00 70.78	6
ATOM	5157	CG	LEU C 207 LEU C 207	72.173 70.832		17.102 16.672	1.00 70.90 1.00 70.57	6 6
ATOM ATOM	5158 5159	CD1 CD2	LEU C 207	73.257		17.058	1.00 70.37	6
ATOM	5160	CDZ	LEU C 207	71.510		17.548	1.00100.14	6
ATOM	5161	Ō	LEU C 207	70.521		17.868	1.00100.30	8
ATOM	5162	N	VAL C 208	72.499		18.384	1.00 68.98	7
ATOM	5163	CA	VAL C 208			19.756	1.00 69.54	6
ATOM ATOM	5164 5165	CB CG1	VAL C 208 VAL C 208	73.693 73.675		20.533 21.954	1.00156.59 1.00157.26	6 6
ATOM	5166	CG2	VAL C 208	73.673		20.528	1.00157.20	6
ATOM	5167	С	VAL C 208	72.516	142.574	19.767	1.00 69.61	6
MOTA	5168	0	VAL C 208	72.927		18.789	1.00 69.37	8
ATOM	5169	N	ARG C 209 ARG C 209	72.086 72.062		20.879 21.000	1.00102.05 1.00102.46	7 6
ATOM ATOM	5170 5171	CA CB	ARG C 209	72.062		20.650	1.00102.46	6
ATOM	5172	CG	ARG C 209	74.536		21.457	1.00 80.04	6
MOTA	5173	CD	ARG C 209	75.935		21.198	1.00 80.98	6
MOTA	5174	NE	ARG C 209	76.830		22.271	1.00 82.65	7
MOTA MOTA	5175 5176	CZ NH1	ARG C 209 ARG C 209	78.128 78.720		22.351 21.408	1.00 83.21 1.00 83.30	6 7
ATOM	5177	NH2	ARG C 209	78.831		23.391	1.00 83.30	7
ATOM	5178	C	ARG C 209	70.998		20.014	1.00103.27	6
MOTA	5179	0	ARG C 209	70.996		19.535	1.00103.27	8
MOTA	5180	N	GLU C 210	70.089		19.727	1.00118.85	7
ATOM ATOM	5181 5182	CA CB	GLU C 210 GLU C 210			18.810 17.372	1.00120.27 1.00180.96	6 6
ATOM	5183	CG	GLU C 210	68.659		16.459	1.00180.38	6
ATOM	5184	CD	GLU C 210	68.723		16.840	1.00182.17	6
MOTA	5185	OE1		69.801		16.677	1.00182.81	8
ATOM	5186	OE2	GLU C 210 GLU C 210	67.699		17.308 18.970	1.00182.12	8 6
ATOM ATOM	5187 5188	C O	GLU C 210	68.034 66.988		18.319	1.00120.32 1.00120.10	8
ATOM	5189	N	LEU C 211			19.843	1.00126.71	7
MOTA	5190	CA	LEU C 211	67.643	141.041	20.155	1.00115.98	6
MOTA	5191	CB	LEU C 211	68.133		19.357	1.00135.44	6
ATOM ATOM	5192 5193	CG CD1	LEU C 211 LEU C 211			20.064 20.222	1.00136.01 1.00137.05	6 6
ATOM	5193	CD1				19.284	1.00137.03	6
ATOM	5195	C	LEU C 211			21.633	1.00114.77	6
MOTA	5196	0	LEU C 211			22.398	1.00114.10	8
ATOM	5197	N	SER C 212			22.010	1.00109.57	7 6
MOTA MOTA	5198 5199	CA CB	SER C 212 SER C 212			23.375 23.368	1.00109.17 1.00 83.30	6
ATOM		رين	Duit C 212	,0.515	130.077	23.300	1.00 05.50	J

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 52201\\ 52202\\ 52203\\ 4\\ 52202\\ 52203\\ 52203\\ 52202\\ 52211\\ 52211\\ 52212\\ 52222\\$	C O N CA CB CG1 CD2 C O N CA CB CG1	ASP C 216 ASP C 217 LEU C 218 VAL C 218 CAL C 219 GLN C 219 GLN C 219 GLN C 219 GLN C 219	71.413 139.150 70.036 141.259 71.153 141.650 69.342 141.814 69.866 142.935 69.444 144.247 69.365 142.870 70.162 142.791 68.046 142.888 67.468 142.842 65.933 142.921 65.215 141.897 65.777 140.642 65.081 139.705 63.939 142.175 63.242 141.247 63.815 140.022 63.124 139.140 67.901 141.630 67.635 141.554 68.573 140.686 69.038 139.515 70.350 139.026 70.350 138.096 71.458 139.648 72.804 139.300 73.791 139.261 73.854 140.569 74.937 141.197 72.876 137.972 72.381 137.829 73.514 136.998 73.623 135.687 72.237 135.044 71.155 135.447 69.855 134.737 71.590 135.106 74.189 135.836 74.174 134.882 74.698 137.022 75.226 137.263 74.759 138.612 75.311 138.810 73.247 138.647 69.855 134.737 71.590 135.106 74.189 135.836 74.174 134.882 74.698 137.022 75.226 137.263 74.759 138.612 75.311 138.810 73.247 138.664 76.730 137.185 77.164 136.633 77.527 137.744 78.980 137.695 79.700 137.997 79.550 139.285 80.500 139.495 81.719 139.563 79.948 139.586 79.402 136.345	22.509 24.084 23.747 25.070 25.834 25.191 27.268 28.7712 26.27.553 27.553 26.559 26.559 26.559 26.559 28.669 29.074 30.928 29.074 30.928 29.26.146 28.289 29.27.30.174 30.928 29.26.5793 28.266.111 26.525 24.660 28.289 29.27.687 26.5747 26.5747 26.525 24.6609 24.000 25.747 26.525 24.6609 24.000 25.747 26.525 24.6609 25.747 26.525 24.6609 25.747 26.525 24.6609 25.747 26.525 24.6609 25.747 26.525 26.530 25.747 26.530 25.747	1.00 83.23 1.00109.05 1.00109.05 1.00 89.80 1.00 88.67 1.00119.25 1.00 87.84 1.00129.04 1.00128.86 1.00 81.89 1.00 80.30 1.00 79.07 1.00 77.16 1.00 79.27 1.00 75.89 1.00 75.89 1.00 75.89 1.00 75.27 1.00 75.58 1.00 77.58 1.00 77.58 1.00 77.58 1.00 77.58 1.00 77.58 1.00 77.58 1.00 77.58 1.00 77.58 1.00 77.58 1.00 79.36 1.00 79.36	86876668766666666868766887666886876666687666687666876
MOTA	5255	0	GLN C 219	80.380 136.250	24.424	1.00153.73	8

ATOM ATOM ATOM ATOM ATOM	5256 5257 5258 5259 5260	N CA C O N	GLY C 22 GLY C 22 GLY C 22 GLY C 22 LEU C 22	0 78 0 78 0 78 1 77	.941 .353 .902 .229	135.305 133.974 133.704 132.907 134.342 134.157	25.516 25.027 23.653 22.886 23.338 22.029	1.00 75.93 1.00 77.21 1.00 78.18 1.00 78.07 1.00 83.09 1.00 84.37	7 6 6 8 7 6
ATOM ATOM	5261 5262	CA CB	LEU C 22 LEU C 22			134.734	22.011	1.00 57.92	6
MOTA	5263	CG	LEU C 22			134.511	20.695	1.00 57.02 1.00 56.56	6 6
ATOM ATOM	5264 5265	CD1 CD2	LEU C 22 LEU C 22			133.054 135.474	20.628 20.585	1.00 56.56 1.00 56.14	6
ATOM	5266	CDZ	LEU C 22	1 77	.476	134.892	21.003	1.00 85.81	6
ATOM	5267	0	LEU C 22			134.943	19.812	1.00 86.07	8
MOTA	5268	N	LEU C 22			135.460	21.479	1.00 56.83	7
MOTA	5269 5270	CA	LEU C 22 LEU C 22			136.193 137.662	20.615 21.056	1.00 58.88 1.00 71.27	6 6
ATOM ATOM	5270 5271	CB CG	LEU C 22		.229	137.002	20.951	1.00 70.06	6
ATOM	5272	CD1	LEU C 22		.407	139.815	21.614	1.00 69.38	6
ATOM	5273	CD2	LEU C 22			138.649	19.497	1.00 68.39	6
MOTA	5274	C	LEU C 22			135.593	20.583	1.00 61.05	6
MOTA	5275 5276	0	LEU C 22 ASP C 22			135.797 134.848	19.620 21.617	1.00 62.44 1.00149.38	8 7
ATOM ATOM	5276	N CA	ASP C 22		.604	134.236	21.662	1.00143.30	6
MOTA	5278	CB	ASP C 22		.637	133.082	22.671	1.00208.87	6
MOTA	5279	CG	ASP C 22	-		133.561	24.099	1.00208.87	6
MOTA	5280	OD1	ASP C 22			134.261	24.364	1.00208.87	8
MOTA	5281 5282	OD2 C	ASP C 22 ASP C 22		.975	133.236 133.731	24.956 20.303	1.00208.87 1.00152.75	8 6
ATOM ATOM	5282 5283	0	ASP C 22		.259	133.731	19.950	1.00152.75	8
ATOM	5284	N	GLU C 22		.202	133.089	19.549	1.00 84.62	7
ATOM	5285	CA	GLU C 22		.549	132.576	18.228	1.00 86.27	6
ATOM	5286	CB	GLU C 22		.940	131.186	18.019	1.00208.87	6
MOTA	5287	CG CD	GLU C 22 GLU C 22		.704	130.066 129.907	18.706 18.162	1.00208.87 1.00208.87	6 6
MOTA MOTA	5288 5289	OE1	GLU C 22		.265	129.623	16.955	1.00208.87	8
MOTA	5290	OE2	GLU C 22		.073	130.069	18.943	1.00208.87	8
MOTA	5291	C	GLU C 22	4 82	.085	133.520	17.117	1.00 86.52	6
MOTA	5292	0	GLU C 22		.729	133.075	16.020	1.00 85.93	8
ATOM	5293	N	ALA C 22 ALA C 22		.091	134.822 135.831	17.406 16.426	1.00175.86 1.00176.34	7 6
ATOM ATOM	5294 5295	CA CB	ALA C 22			137.230	16.961	1.00176.54	6
ATOM	5296	C	ALA C 22		.538		15.199	1.00176.29	6
ATOM	5297	0	ALA C 22	5 82	.205	136.013	14.095	1.00176.67	8
ATOM	5298	N	VAL C 22			134.904	15.419	1.00 98.39 1.00 97.87	7
ATOM	5299 5300	CA	VAL C 22 VAL C 22			134.549 133.561	14.341 14.831	1.00 97.87	6 6
ATOM ATOM	5300	CB CG1	VAL C 22		.463	134.211	15.916	1.00 88.30	6
MOTA	5302	CG2	VAL C 22		.985	132.302	15.377	1.00 88.42	6
MOTA	5303	С	VAL C 22			133.881	13.319	1.00 97.91	6
MOTA	5304	0	VAL C 22			134.119	12.119	1.00 98.63 1.00138.81	8 7
ATOM	5305 5306	N CA	LEU C 22 LEU C 22			133.060 132.375	13.814 12.964	1.00138.81	<i>1</i> 6
ATOM ATOM	5300	CB	LEU C 22			131.303	13.755	1.00116.19	6
ATOM	5308	CG	LEU C 22	7 81	.749	130.059	14.213	1.00117.20	6
MOTA	5309	CD1	LEU C 22			129.071	14.911	1.00116.00	6
ATOM	5310	CD2				129.404	13.005	1.00117.61 1.00138.64	6 6
ATOM	5311	С	LEU C 22	7 80	. /03	133.415	12.437	1.00130.04	U

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5313145678901233455678901 531345678901233455678901 5355555555555555555555555555555555555	O N CA CC CC C O CC	ARG C 230 ARG C 230 ARG C 231 PRO C 231 GLU C 232 GLU C 233	84.185 140.325 11.847 1.00208.87 81.686 137.148 9.068 1.00102.40 82.146 138.029 8.341 1.00101.26 81.046 136.085 8.590 1.00 66.08 80.836 135.900 7.157 1.00 65.23 82.188 135.731 6.454 1.00105.16 83.196 134.900 7.239 1.00106.81 84.492 134.702 6.457 1.00107.45 85.550 134.118 7.281 1.00108.21 85.732 135.953 8.659 1.00107.49 87.069 134.123 9.010 1.00109.17 79.937 134.708 6.824 1.00 63.26 80.314 133.558 7.054 1.00 63.36 78.733 134.962 6.275 1.00140.24 78.185 136.252 5.826 1.00 42.06 77.822 133.864 5.926 1.00138.58 76.584 134.590 5.399 1.00 40.00 77.154 132.091	876668766668766667677687666688766668868766688868
ATOM	5357	CD	GLU C 233	84.578 130.039 5.918 1.00 66.29	6
ATOM	5358	OE1	GLU C 233	84.483 130.293 7.137 1.00 65.59	8
ATOM	5359	OE2	GLU C 233	84.957 128.927 5.493 1.00 66.13	8

ATOM ATOM	5368 5369	CA CB		235	76.397	127.203 127.298	5.954 4.594	1.00 62.59 1.00 48.98	6
ATOM	5370	CG	MET C		75.708	128.597	4.319	1.00 48.48	6
MOTA MOTA	5371 5372	SD CE	MET C	235 235	74.890	128.508 128.459	2.715 3.250	1.00 48.43 1.00 47.57	16 6
ATOM	5372	CE	MET C	235		126.075	5.879	1.00 47.37	6
ATOM	5374	Õ	MET C	235		124.969	6.374	1.00 61.98	8
ATOM	5375	N	VAL C		79.230	126.374	5.247	1.00 38.65	7
ATOM	5376	CA	VAL C		80.299	125.405	5.082	1.00 36.92	6
ATOM	5377	CB	VAL C			125.946	4.140	1.00 13.87	6
ATOM	5378	CG1			82.629	125.036	4.205	1.00 13.87	6
ATOM	5379	CG2	VAL C			126.039 124.982	2.695 6.409	1.00 13.87 1.00 37.57	6 6
ATOM ATOM	5380 5381	C O	VAL C	236 236	80.909	124.982	6.596	1.00 37.37	8
ATOM	5382	N	ARG C		81.097		7.331	1.00101.36	7
ATOM	5383	CA	ARG C		81.646		8.625	1.00103.24	6
ATOM	5384	СВ	ARG C		81.927	126.786	9.464	1.00117.69	6
ATOM	5385	CG	ARG C		82.957	127.707	8.842	1.00119.98	6
ATOM	5386	CD	ARG C		84.320	127.050	8.754	1.00121.93	6
MOTA	5387	NE	ARG C		85.291	127.934	8.115	1.00125.29	7
MOTA	5388	CZ NH1	ARG C		86.586 87.075	127.662 126.526	7.993 8.471	1.00126.39 1.00127.88	6 7
MOTA MOTA	5389 5390	NH1	ARG C		87.075	128.525	7.390	1.00127.88	7
ATOM	5391	C	ARG C		80.608	124.657	9.305	1.00123.63	6
ATOM	5392	Ö	ARG C		80.951	123.662	9.943	1.00104.18	8
MOTA	5393	N	LEU C	238	79.337	125.022	9.157	1.00 56.15	7
MOTA	5394	CA		238	78.240	124.239	9.723	1.00 56.26	6
MOTA	5395	CB		238	76.903	124.969	9.511	1.00 20.59	6
ATOM	5396	CG		238	75.548 75.416	124.426 124.515	9.996 11.505	1.00 18.61 1.00 17.53	6 6
ATOM ATOM	5397 5398	CD1 CD2	LEU C	238 238		124.515 125.252	9.356	1.00 17.33	6
ATOM	5399	CDZ	LEU C		78.239	122.899	8.977	1.00 57.78	6
ATOM	5400	Ö		238	78.290	121.838	9.594	1.00 57.62	8
ATOM	5401	N	PHE C	239	78.194	122.951	7.648	1.00 50.91	7
MOTA	5402	CA		239	78.203	121.734	6.844	1.00 52.69	6
ATOM	5403	CB		239	78.419	122.071	5.367	1.00 84.65	6
ATOM	5404	CG CD1	PHE C		77.904 76.800	121.022 121.287	$4.414 \\ 3.594$	1.00 84.64 1.00 85.15	6 6
ATOM ATOM	5405 5406	CD1 CD2		239	78.509	119.773	4.333	1.00 83.15	6
ATOM	5407	CE1	PHE C			120.323	2.707	1.00 85.25	6
ATOM	5408	CE2	PHE C			118.799	3.450	1.00 83.75	6
ATOM	5409	CZ	PHE C			119.076	2.636	1.00 84.76	6
ATOM	5410	С	PHE C			120.871	7.342	1.00 54.23	6
ATOM	5411	0	PHE C			119.690	7.643	1.00 53.69	8 7
ATOM	5412 5413	N	THR C		80.531	121.486 120.801	7.441 7.891	1.00 49.83 1.00 53.38	6
MOTA ATOM	5413	CA CB	THR C		82.966		7.735	1.00 35.50	6
MOTA	5415	OG1	THR C		83.025		6.392	1.00 76.24	8
MOTA	5416	CG2	THR C		84.234	120.906	8.016	1.00 75.21	6
MOTA	5417	С	THR C			120.389	9.344	1.00 56.09	6
MOTA	5418	0	THR C			119.860	9.945	1.00 56.86	8
ATOM	5419 5420	N C7	LEU C		80.412	120.642 120.260	9.912 11.290	1.00 88.04 1.00 92.43	7 6
ATOM ATOM	5420	CA CB	LEU C		79.587		12.087	1.00 92.43	6
ATOM	5422	CG	LEU C			122.299	12.847	1.00 68.57	6
MOTA	5423		LEU C			123.466	13.468	1.00 68.16	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 54267890123345678901234456789012334567890123456789000000000000000000000000000000000000$	CONCABGODO NA CONCABGO NA CONCAGO NA CONCA	LEU C 242 LEU C 242 LEU C 242 ARG C 243 ARG C 244 PRO C 245 GLY C 245 GLY C 245 GLY C 245 GLY C 245 ASP C 246 ASP C 247 PRO C 248	81.283 121.469 79.156 119.113 78.653 118.698 78.873 118.623 77.969 117.499 76.785 117.901 75.503 118.336 75.769 119.543 74.425 118.650 78.739 116.336 79.088 116.353 79.011 115.340 79.737 114.140 79.738 113.152 80.592 111.913 80.534 111.041 81.468 109.924 81.642 109.043 80.942 109.152 82.519 108.057 79.086 113.497 77.873 113.592 79.890 112.842 79.366 111.947 81.341 112.685 81.594 111.349 80.636 111.410 82.105 113.829 81.603 114.949 83.321 113.533 84.130 114.541 83.762 114.705 84.517 114.311 82.587 115.270 82.136 115.501 80.625 115.749 79.827 114.481 80.029 113.518 78.993 114.449 82.883 116.710 83.858 117.180 82.446 117.227 81.519 116.670 83.163 118.382 82.840 118.302 81.437 117.785 82.747 119.722 81.607 120.157 83.668 120.397 84.997 119.930 83.357 121.692 84.686 122.105 85.268 120.801 82.450 123.794	13.917 11.286 12.3333 10.0881 9.8990 9.717 10.6925 9.0700 9.7090 10.6925 10.0900 10.6882 11.8859 10.6926 11.8859 10.6926 11.8859 10.6926 11.8859 11.88	1.00114.04 1.00194.03 1.00113.17 1.00194.32 1.00194.34 1.00111.52 1.00111.58 1.00 92.49 1.00 76.77 1.00 90.62 1.00 75.12 1.00 75.76 1.00 88.92	66876666687666676776876666687668876668868766668766688
MOTA	5478	N	PRO C 248	82.450 123.794	1.862	1.00 89.53	8
MOTA	5479	N	LYS C 249	82.917 122.301	0.267	1.00 61.79	7

ATOM 5529 CB ALA C 255 71.494 124.433 4.786 1.00 13.87 6	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 54882345678901234567890123456789012345678901200000000000000000000000000000000000$	CD2 C O N CA	ASP C 251 ASP C 251 ASP C 252 LYS C 253 ALA C 254 LEU C 255 ALA C 255 ALA C 255	82.472 123.171 82.371 122.373 82.144 123.214 82.300 122.371 82.232 123.225 82.505 122.427 81.124 123.798 80.211 123.108 81.028 125.112 79.811 125.902 80.003 127.283 80.498 127.165 80.484 128.462 80.930 128.190 80.889 129.393 78.621 125.230 78.672 124.996 77.544 124.940 76.402 124.280 76.330 122.816 76.918 121.878 76.399 121.850 77.902 121.177 75.005 124.887 74.339 125.020 74.553 125.244 73.211 125.805 72.848 126.755 71.372 127.168 71.070 128.283 69.607 128.763 69.233 129.903 72.217 124.648 71.167 124.741 72.562 123.557 71.717 122.373 72.163 121.442 71.848 121.695 72.812 121.965 70.898 120.814 70.883 120.112 72.302 119.723 72.163 121.442 71.848 121.695 72.812 121.965 70.898 120.814 70.883 120.112 72.302 119.723 72.163 121.442 71.848 121.695 72.812 121.965 70.898 120.814 70.883 120.112 72.302 119.723 72.163 121.442 71.848 121.695 72.812 121.965 70.898 120.814 70.883 120.112 72.302 119.723 72.163 121.442 71.848 121.695 72.812 121.965 70.898 120.814 70.883 120.112 72.302 119.723 72.163 121.442 71.848 121.695 72.812 121.965 70.898 120.814 70.883 120.112 72.302 119.723 72.163 121.442 71.848 121.695 72.812 121.965 70.898 120.814 70.883 120.318 70.357 123.440	-0.805 -2.107 -3.3557 -4.617 -5.873 -7.108 -0.0661 -0.424 -1.044 -2.489 -3.271 -0.576 -1.3388 -0.574 -1.2.3381 -0.574 -1.2.3381 -0.715 -2.743 -0.757 -1.668 -2.775 -1.775 -1.668 -2.489 -1.775 -1.775 -1.775 -1.668 -2.495 -1.17	1.00 30.25 1.00 28.08 1.00 27.43 1.00 27.06 1.00 64.57 1.00 64.88 1.00 46.43 1.00 45.16	666667687666667687666886876666676876668876666876
	ATOM ATOM ATOM	5525 5526 5527	C O N	LEU C 254 LEU C 254 ALA C 255 ALA C 255	70.292 121.095 69.409 120.749 70.823 122.318 70.357 123.440	3.760 4.542 3.710 4.510	1.00 64.57 1.00 64.88 1.00 46.43	6 8 7
ATOM 5535 CG TYR C 256 68.211 123.616 -1.137 1.00116.52 6								

ATOM ATOM ATOM ATOM	5648 5649 5650 5651	N CA C O	GLY C 270 GLY C 270 GLY C 270 GLY C 270	48.391 48.487 48.242 48.893	125.284 126.544 126.229 126.770	7.160 7.854 9.311 10.200	1.00123.16 1.00121.84 1.00121.58 1.00121.86	7 6 6 8
ATOM	5652	N	GLU C 271	47.312	125.314	9.548	1.00 56.86	7
ATOM	5653	CA	GLU C 271	46.955	124.928	10.900	1.00 56.02	6
ATOM ATOM	5654 5655	CB CG	GLU C 271 GLU C 271	45.659 44.493	124.117 124.851	10.870 10.224	1.00103.22 1.00102.91	6 6
ATOM	5656	CD	GLU C 271	44.210	126.195	10.872	1.00102.31	6
ATOM	5657	OE1	GLU C 271	43.798	126.221	12.052	1.00103.46	8
MOTA	5658	OE2	GLU C 271	44.399	127.226	10.196	1.00103.93	8
ATOM	5659	C	GLU C 271	48.040	124.144	11.635	1.00 55.94	6
ATOM ATOM	5660 5661	O N	GLU C 271 ALA C 272	48.949 47.925	123.584 124.145	11.020 12.963	1.00 55.00 1.00136.30	8 7
ATOM	5662	CA	ALA C 272	48.822	123.445	13.883	1.00130.30	6
ATOM	5663	CB	ALA C 272	48.819	121.943	13.563	1.00 70.85	6
ATOM	5664	С	ALA C 272	50.265	123.957	13.996	1.00138.00	6
ATOM	5665	0	ALA C 272	51.048	123.432	14.792	1.00138.36	8
MOTA	5666	N	GLY C 273	50.622		13.225 13.293	1.00107.29	7 6
ATOM ATOM	5667 5668	CA C	GLY C 273 GLY C 273	51.981 52.072	125.498	13.427	1.00107.57 1.00107.38	6
ATOM	5669	0	GLY C 273	52.775	127.532	14.290	1.00107.38	8
ATOM	5670	N	ARG C 274	51.371		12.548	1.00163.77	7
ATOM	5671	CA	ARG C 274	51.368	129.155	12.597	1.00164.91	6
ATOM	5672	CB	ARG C 274	50.629	129.729	11.382	1.00130.45	6
ATOM ATOM	5673 5674	CG CD	ARG C 274 ARG C 274	49.139 48.559	129.418 129.727	11.330 9.960	1.00130.94 1.00131.16	6 6
ATOM	5675	NE	ARG C 274	47.121		9.909	1.00131.10	7
ATOM	5676	CZ	ARG C 274	46.406		8.788	1.00132.41	6
ATOM	5677	NH1	ARG C 274	46.998	129.664	7.614	1.00131.64	7
ATOM	5678	NH2	ARG C 274	45.098	129.252	8.842	1.00133.00	7
ATOM ATOM	5679 5680	C O	ARG C 274 ARG C 274	50.648 51.175	129.516 130.255	13.886 14.717	1.00165.08 1.00165.31	6 8
ATOM	5681	N	TYR C 275	49.450	128.965	14.055	1.00105.31	7
ATOM	5682	CA	TYR C 275	48.652	129.214	15.243	1.00127.24	6
MOTA	5683	CB	TYR C 275	47.471	128.246	15.304	1.00208.45	6
ATOM	5684	CG	TYR C 275	46.313	128.627	14.412	1.00208.87	6
ATOM	5685 5686	CD1 CE1	TYR C 275 TYR C 275	46.488 45.421	128.794 129.137	13.040 12.213	1.00208.87 1.00208.87	6 6
ATOM ATOM	5687	CD2	TYR C 275	45.036	128.812	14.940	1.00208.87	6
ATOM	5688	CE2	TYR C 275		129.154	14.122	1.00208.87	6
MOTA	5689	CZ	TYR C 275		129.315	12.759	1.00208.87	6
MOTA	5690	OH	TYR C 275		129.642	11.942	1.00208.87	8
ATOM ATOM	5691 5692	C O	TYR C 275 TYR C 275		129.044 129.906	16.482 17.358	1.00127.57 1.00128.16	6 8
ATOM	5693	N	ALA C 276		127.932	16.550	1.00128.10	7
ATOM	5694	CA	ALA C 276	51.067		17.703	1.00 61.43	6
MOTA	5695	CB	ALA C 276	51.898	126.435	17.470	1.00160.70	6
ATOM	5696	C	ALA C 276		128.872	18.019	1.00 60.68	6
ATOM ATOM	5697 5698	O N	ALA C 276 ALA C 277	51.614 53 155	129.755 128.882	18.804 17.395	1.00 60.70 1.00 41.08	8 7
ATOM	5699	N CA	ALA C 277		129.925	17.587	1.00 41.08	6
ATOM	5700	CB	ALA C 277	55.221		16.495	1.00110.85	6
MOTA	5701	С	ALA C 277	53.583	131.328	17.613	1.00 39.89	6
MOTA	5702	0	ALA C 277		132.111	18.506	1.00 38.90	8
MOTA	5703	N	GLU C 278	52.739	131.644	16.633	1.00158.16	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5760 5761 5762 5763 57663 57665 57667 5777	CD2 C O N CA CB CG1 CG2 C O N CA CB CC CD1 CD2 CCD1 CCC CCC CC CCC CCC CCC CCC CCC CCC	VAL C 291 VAL C 291 VAL C 291 ALA C 292 PHE C 293	54.099 133.559 55.351 131.705 55.001 131.229 55.741 132.051 55.555 133.446 55.343 129.753 56.515 129.401 54.322 128.900 54.532 127.474 55.666 126.736 55.409 125.965 56.912 126.945 58.071 126.268 58.667 125.298 59.189 127.159 59.444 128.249 59.862 126.661 60.980 127.362 61.803 126.430 60.986 125.955 62.991 127.173 61.898 127.792 62.015 127.087 62.548 128.939 63.465 129.465 64.782 128.695 65.811 129.042 66.107 130.527 67.075 128.243 62.903 129.441 61.992 128.682 63.445 130.298 62.994 130.365 61.892 131.437 61.529 131.544 60.659 131.080 64.176 130.704 64.829 131.734 64.449 129.814 65.545 129.991 66.540 128.861 64.990 130.017 63.800 130.267 65.854 129.754 65.458 129.754 65.458 129.754 65.458 129.752 64.614 128.511 65.732 127.534 63.344 127.835 64.526 127.527 64.679 131.019 64.020 131.083	8.434 8.6074 6.274 6.275 6.387 6.387 6.3805 7.676 8.437 7.6672 7.245 7.246 8.7407 7.246 8.7407 7.246 8.7407 7.246 8.7407 7.998 11.3746 8.7409 8.877 6.2103 7.999 11.367 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 6.2103 7.999 12.475 7.999 12.475 7.999 12.475 7.999 12.475 7.999 13.699 7.999 13.699 7.999 7	1.00 95.72 1.00140.80 1.00140.03 1.00102.60 1.00101.88 1.00139.39 1.00139.47 1.00 95.77 1.00 95.78 1.00 96.06 1.00 95.73 1.00 94.57 1.00 94.17 1.00 50.77 1.00 93.74 1.00 95.18 1.00 95.18 1.00 95.18 1.00 95.31 1.00 95.64 1.00 89.32 1.00 95.31 1.00 95.64 1.00 89.32 1.00 95.64 1.00 89.32 1.00 95.64 1.00 88.80 1.00 89.32 1.00 95.64 1.00 88.84 1.00 89.92 1.00 88.80 1.00 56.06 1.00 88.84 1.00 89.92 1.00 88.80 1.00 56.25 1.00 55.02 1.00 81.17 1.00 83.23 1.00129.79 1.00130.39 1.00 84.36 1.00 83.65 1.00196.81 1.00129.79 1.00125.71 1.00200.14 1.00200.89 1.00 97.14 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00208.87	8766868766876668766866876666668766668766687666876668
ATOM	5812	C	PHE C 293	64.679 131.019	-2.675	1.00 98.97	6
ATOM	5813	O	PHE C 293	64.020 131.083	-3.715	1.00 99.42	8
ATOM	5814	N	GLU C 294	64.748 132.020	-1.802	1.00165.72	7
ATOM	5815	CA	GLU C 294	64.078 133.294	-2.039	1.00166.50	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	5818	CD C	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	294 294 294 295 295 295 295 297 297 297 297 298 298 298 298 298 298 298 298 298 298	61.717 61.464 8597 64.8597 64.8597 66.8597 66.5830 67.117 66.5830 67.475 66.583 70.326 68.475 70.326 68.475 70.326 69.32 70.326	133.742 134.128 135.338 133.226 133.987 134.476 134.003 134.607 136.913 136.526 137.985 134.582 135.553 133.455 133.326 137.972 134.197 134.197 134.197 134.197 134.197 134.197 134.197 134.504 133.686 137.676 138.305 138.004 133.426 133.309 132.682 131.530 130.305 130.305 130.305 130.305 130.305 133.687 134.695 134.695 135.448 134.695 135.77 134.549 135.690 135.77 134.695 133.695 133.695 133.695 133.695 133.695 133.695 133.695 133.695 133.695 133.695 133.695 133.695	0.283 -0.270 -0.1924 -0.1924 -1.1953 -	1.00135.17 1.00136.82 1.00137.55 1.00138.64 1.00166.56 1.00166.41 1.00135.96 1.00135.93 1.00 86.41 1.00 85.80 1.00 84.79 1.00 86.23 1.00136.47 1.00136.80 1.00110.37 1.00110.99 1.00111.59 1.00112.40 1.00170.55 1.00170.60 1.00186.63 1.00188.22 1.00189.15 1.00189.15 1.00189.15 1.00170.34 1.00170.10 1.00140.37 1.00140.50 1.00139.59 1.00140.10 1.00140.80 1.00139.57 1.00140.82 1.00139.57 1.00140.82 1.00139.57 1.00140.82 1.00139.57 1.00140.82 1.00139.57 1.00140.52	6688687666886876668766688687666666666687687
ATOM STOMM STORM S	5865 C 5866 C 5867 C 5868 C 5869 C 5870 C	CA A CB A CG A CD1 A CD2 A CC A	ASP C ASP C	300 300 300 300 300 300 300	64.447 65.450 65.503 65.894 65.144 63.174	132.780 132.619	8.526 9.667	1.00124.41 1.00119.73	6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	592301233456789012399331233456789012334567890123345678901233456789012334567890123456789000000000000000000000000000000000000	NH2 C O N CA CB CGCD1 CD2 CZ CD1 CD2 CC CD1 CD2 CC CD1 CD2 CC CD2 CC CD2 CC CD2 CC	ARG G G C C C C C C C C C C C C C C C C C	308 308 308 308 308 308 308 308 309 309 309 309 309 309 309 309 310 310 310 311 311 311 311 311 311 311	64.663 64.186 63.4101 62.5647 61.3355 61.647 61.8953 63.627 61.986 63.627 61.986 63.62.074 61.988 57.788 58.800 63.62.074 61.943 63.663 63.663 63.663 63.663 63.663 64.663 65.563 663.663 670.0164 670.017 64.494 670.017 670.	131.147 133.487 133.123 133.095 132.257 131.545 130.689 129.509 130.218 133.133 132.979 134.057 134.952 135.981 135.373 136.180 133.998 135.631 133.446 134.268 135.631 135.889 135.643 135.889 135.938 136.570 136.820 135.989 134.342 133.269 134.342 133.269 134.342 133.269 132.031 130.634 130.634 130.639	23.285 21.499 22.129 21.090 21.532 20.304 19.382 17.713 17.408 23.240 24.420 24.420 24.420 24.420 24.420 25.015 24.291 25.0161 24.880 25.785 24.555 24.555 24.555 24.605 25.609 27.430 26.784 26.184 25.608 26.784 26.186 27.430 26.784 26.186 27.430 26.784 26.186 27.430 26.784 26.186 27.430 26.784 26.186 27.430 26.784 26.186 27.430 27.430 28.400 27.430 27.430 28.400 27.430 26.186 27.430 27.430 28.400 27.430 28.200 28.200 29.666 29.660 29.666 29.660 29.666 29.667 29.666 29.666 29.666 29.666 29.666 29.666 29.666 29.667 29.677 29.677 29.677 29.67	1.00 66.27 1.00 50.53 1.00 49.79 1.00 75.25 1.00 75.78 1.00 75.70 1.00 75.04 1.00 76.65 1.00 48.91 1.00 48.85 1.00 59.73 1.00 57.75 1.00 46.74 1.00 44.13 1.00 44.13 1.00 44.56 1.00 42.72 1.00 43.96 1.00 45.15 1.00 19.45 1.00 19.45 1.00 22.17 1.00 20.12 1.00 17.82 1.00 19.45 1.00 56.45 1.00 56.45 1.00 56.45 1.00 56.52 1.00 56.38 1.00 56.52 1.00 56.38 1.00 56.52 1.00 56.37 1.00 56.38	8766667677687666666668887666668766666668766688766668
MOTA	5983	0	LEU C	313	62.718	132.033	31.571	1.00 57.42	O

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 604123445678901234567890123456789012345678901234567890123456789012345678901200000000000000000000000000000000000$	CG2 C O N CAB C C O N C C C C C C C C C C C C C C C C	ALA C 3 ASP C 3 HIS C 3 LEU C 3 LEU C 3 LEU C 3	22 22 22 23 23 23 23 24 24 24 24 24 24 24 24 25 525 526 626 627 73 27 327 327 327 327 327 327 327 327	53.849 56.139 57.015 57.0288 57.288 54.783 55.783 56.491 56.491 56.491 56.491 56.491 56.491 56.491 57.064 57.06	122.538 122.222 122.839 123.043 119.229 119.330	27.186 27.168 28.726 29.260 28.881 30.132 27.468 27.468 27.468 27.468 27.468 27.468 29.27 28.769 29.30 29.700 28.7700 28.	1.00100.63 1.00 99.26 1.00101.41 1.00101.84 1.00115.83 1.00116.94 1.00117.29 1.00117.57 1.00 90.38 1.00 90.03 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.002129.49 1.00129.49 1.00128.58 1.00129.16 1.00 84.98 1.00 83.82 1.00 99.04 1.00 99.14 1.00 99.14 1.00 99.14 1.00 99.14 1.00 99.68 1.00 99.68 1.00 99.68 1.00 99.68 1.00 66.15 1.00 66.29 1.00 66.32 1.00 66.32 1.00 66.58 1.00127.76 1.00127.72 1.00 67.84 1.00 66.59 1.00 66.59 1.00 66.59 1.00 66.59 1.00 66.59 1.00 66.59 1.00 66.59 1.00 66.59 1.00 66.32 1.00 66.32 1.00 89.73 1.00 85.71 1.00 33.75 1.00 33.75 1.00 32.84 1.00 30.73 1.00 34.53	6668766687666886876668766688687666676768766666
ATOM ATOM	6078	С	HIS C 3	327	47.406	119.229	26.978	1.00127.76	6
	6080		LEU C 3	328	46.235	118.614	26.850	1.00 89.73	7
MOTA	6081	CA	LEU C 3	328					
					44.896	115.768	25.924	1.00 32.84	6
MOTA	6084	CD1	LEU C 3	328	45.556	115.634	27.290		
ATOM ATOM	6085 6086	CD2 C	LEU C 3			114.956 119.200	25.846	1.00 34.53	6
MOTA	6087	0	LEU C 3	328	44.682	119.185	23.766	1.00 83.74	8
ATOM	6088 6089	N CA	GLY C 3			120.185 121.295	24.611 23.690	1.00 95.19 1.00 91.47	7 6
ATOM ATOM	6090	CA	GLY C 3	329	47.828	121.088	23.015	1.00 88.66	6
MOTA	6091	0	GLY C 3	329		121.800	22.087	1.00 90.13 1.00 70.19	8 7
ATOM ATOM	6092 6093	N CA	ASN C 3			120.081 119.709	23.511 22.999	1.00 70.19	6
MOTA	6094	CB	ASN C 3	330	50.958	120.221	23.938	1.00 42.25	6
MOTA	6095	CG	ASN C 3	330	50.787	121.686	24.286	1.00 39.89	6

ATOM 6261 C ARG C 350 62.158 104.712 -2.727 1.00 64.82	MOTA	6261	CONCACBCCD1CD2CONCACBCCDNCCNNCACBCCDNCCNNCCNNCCNNCCNNCCNNCCNNCCNNCCNNCC	PHE C C C C C C C C C C C C C C C C C C C	344 344 344 344 344 344 344 344 344 344	51.092 49.781 51.8757 50.088 54.359 55.367 54.6359 55.367 54.970 54.970 54.970 55.367 57.56.10 57.405 58.0405 58.1420 57.450 57.57 58.1420 57.57 58.1420 57.57 58.1420 57.57 58.1420 57.57 58.1420 57.57 58.1420 57.57 58.1420 57.57 58.1420 57.57 58.1420 59.479	105.588 104.830 104.086 104.955 104.591 106.116 107.041 108.198 107.959 106.507 108.847 107.551 107.987 108.163 106.903 106.903 106.903 106.903 106.903 104.983 103.770 104.075 103.257 103.257 103.445 102.835 101.987 103.061 104.712	-2.727	1.00 1.00	40.04 38.54 81.14 83.72 23.40 21.23 21.40 20.29 87.02 87.49 208.87 160.69 208.87 62.51 63.53 74.24 75.44 75.95 76.40 77.84 78.67 79.33 64.82	6666666687666767768766666876687666668766876668766767768
ATOM 6262 O ARG C 350 63.020 104.347 -3.525 1.00 65.28	MOTA	6262	0	ARG C	350	63.020	104.347	-3.525	1.00	65.28	8 7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6264 6265 6267 6267 6267 6277 6277 6277 6277	CD2 CC O N CAB C O N CA C O N C C C C C O N C C C C C O N C C C C	ARG C 356 ARG C 356 ARG C 357 GLU C 357	60.462 104.716	666666876668766676776876687666687666767768766688687
ATOM	6317	O	GLU C 357	69.535 105.887 -11.891 1.00 70.88	8
ATOM	6318	N	ARG C 358	67.405 105.257 -11.521 1.00 98.92	7
ATOM	6319	CA	ARG C 358	67.143 104.884 -12.911 1.00 99.88	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 63322345667890\\ 22123345667890\\ 3322234566666666666666666666666666666666$	CBG CDE Z 11 2 CO N C CBG CC CO N CC CC CO N CC CO N CC CO CO N CC CC CO N CC CC CO N CC CC CO N CC CC CC CC CC CO N CC C	ARG C 358 ARG C 359 MET C 359 MET C 359 MET C 359 MET C 360 VAL C 361 MET C 363 SER C 364 PRO C 365 ASP C 365	65.758 104.240 -13.040 1.00 90.7 65.413 103.224 -11.957 1.00 90.0 65.413 103.224 -11.957 1.00 90.0 66.334 102.006 -11.935 1.00 88.2 65.958 101.101 -10.849 1.00 86.3 66.613 99.992 -10.520 1.00 85.4 67.696 99.623 -11.189 1.00 85.5 67.229 106.086 -13.855 1.00101.3 67.926 106.033 -14.871 1.00101.3 66.508 107.155 -13.521 1.00 78.5 66.510 108.377 -14.326 1.00 80.4 66.186 109.607 -13.457 1.00 98.6 64.756 109.687 -12.898 1.00100.5 67.886 108.561 -14.951 1.00 81.2 67.886 108.561 -14.951 1.00 81.2 68.926 108.397 -14.138 1.00137.3 70.300 108.547 -14.600 1.0013.9 71.267 108.621 -13.408 1.00 61.4 72.711 108.678 -13.883 1.00 61.2 70.942 109.837 -12.591 1.00 61.5 70.462 107.475 -16.725 1.00141.2 71.380 106.402 -14.968 1.00105.1 71.938 103.629 -13.716 1.00112.7 71.479 101.941 -13.236 1.00113.6 69.714 102.024 -13.313 1.00113.3 69.714 102.024 -13.313 1.00113.3 71.259 105.263 -15.743 1.00110.4 71.938 103.629 -13.716 1.00112.5 71.868 105.790 -18.076 1.00113.6 69.714 102.024 -13.313 1.00113.3 69.714 102.024 -13.313 1.00113.3 71.259 105.295 -17.128 1.00110.4 71.938 103.629 -13.716 1.00112.5 71.868 105.790 -18.076 1.00113.6 69.714 102.024 -13.313 1.00113.3 71.259 105.295 -17.128 1.00110.6 68.842 105.650 -20.597 1.00117.7 69.305 104.676 -18.453 1.00 77.6 69.308 104.776 -17.205 1.00 77.6 69.308 104.776 -17.205 1.00 77.6 69.308 104.776 -17.205 1.00 77.6 69.308 104.776 -17.205 1.00 77.6 69.308 104.776 -17.205 1.00 17.7 69.308 104.676 -18.453 1.00110.6 67.511 108.735 -21.861 1.00113.6 67.511 108.735 -21.861 1.00113.6 67.511 108.735 -21.861 1.00113.6 67.511 108.735 -21.861 1.00113.6 67.511 108.735 -21.861 1.00137.6 67.511 108.735 -22.367 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6 67.859 110.479 -23.332 1.00160.6	6 6 7 6 7 7 6 8 7 6 6 6 6 8 7 6 6 6 6 8 7 6 6 6 8 7 6 6 8 8 7 6 6 6 6
ATOM ATOM	6367 6368	C 0	PRO C 364 PRO C 364	65.081 109.033 -22.499 1.00136.063.962 109.211 -22.013 1.00136.0)5 6)6 8
ATOM ATOM	6370 6371	CA CB	ASP C 365 ASP C 365	64.146 107.837 -24.415 1.00 89.0 64.462 107.865 -25.918 1.00162.2	06 6 .0 6
ATOM ATOM ATOM	6372 6373 6374	CG OD1 OD2	ASP C 365	63.205 107.890 -26.783 1.00163.6 62.364 106.980 -26.647 1.00165.3 63.058 108.823 -27.601 1.00164.3	3 8 24 8
ATOM	6375	С	ASP C 365	63.768 106.416 -23.994 1.00 87.0)1 6

ATOM 6428 N VAL C 373 59.894 103.248 -12.307 1.00 58.10 7 ATOM 6429 CA VAL C 373 59.124 102.836 -11.146 1.00 57.39 6 ATOM 6430 CB VAL C 373 57.690 103.234 -11.324 1.00 57.10 6 ATOM 6431 CG1 VAL C 373 56.922 102.957 -10.059 1.00 57.34 6

ATOM ATOM ATOM ATOM ATOM	6432 6433 6434 6435 6436	CG2 C O N CA	VAL C VAL C VAL C ASN C	373 373 374	59.174 59.004	100.862 99.425	-11.000 -11.978 -9.774 -9.516	1.00 56.99 1.00 58.00 1.00 58.26 1.00 33.15 1.00 34.29	6 8 7 6
ATOM	6437	CB	ASN C		60.964	99.025	-9.321	1.00128.77	6 6
ATOM	6438 6439	CG OD1	ASN C		61.844 61.560	99.414 99.063	-10.501 -11.648	1.00130.53 1.00132.45	8
ATOM ATOM	6440	ND2	ASN C		62.927		-10.219	1.00132.45	7
MOTA	6441	C	ASN C		58.695	98.997	-8.295	1.00 34.29	6
ATOM	6442	Õ	ASN C		59.224	98.306	-7.424	1.00 33.45	8
MOTA	6443	N		375	57.427	99.416	-8.266	1.00 44.69	7
MOTA	6444	CA	SER C		56.444	99.141	-7.210	1.00 46.27	6
ATOM	6445	CB	SER C		55.100	98.822	-7.863	1.00208.87 1.00208.87	6 8
MOTA	6446	OG C	SER C SER C		54.709 56.778	99.864 98.049	-8.744 -6.196	1.00208.87	6
MOTA MOTA	6447 6448	C O	SER C		56.040	97.066	-6.062	1.00 45.87	8
ATOM	6449	N	ARG C		57.879	98.255	-5.475	1.00 32.74	7
ATOM	6450	CA	ARG C		58.375	97.334	-4.458	1.00 32.98	6
ATOM	6451	CB	ARG C		59.766	96.821	-4.840	1.00142.46	6
ATOM	6452	CG	ARG C		59.794	95.829	-5.999	1.00146.04	6
ATOM	6453	CD	ARG C		59.085	94.530	-5.637 -6.642	1.00147.74 1.00149.33	6 7
ATOM ATOM	6454 6455	NE CZ	ARG C		59.292 58.718	93.491 92.292	-6.604	1.00149.35	6
ATOM	6456	NH1	ARG C		57.895	91.977	-5.612	1.00150.47	7
ATOM	6457	NH2	ARG C		58.967	91.406	-7.558	1.00149.73	7
ATOM	6458	C	ARG C		58.453	98.018	-3.101	1.00 32.39	6
ATOM	6459	0	ARG C		58.211	97.395	-2.076	1.00 31.97	8
ATOM	6460	N	PRO C		58.804	99.314	-3.074	1.00 46.43	7
ATOM	6461	CD	PRO C		59.159 58.906	100.179	-4.213 -1.819	1.00162.38 1.00 45.85	6 6
MOTA MOTA	6462 6463	CA CB	PRO C		59.516	100.000	-2.261	1.00 43.83	6
ATOM	6464	CG	PRO C		58.963	101.562	-3.635	1.00162.91	6
ATOM	6465	C	PRO C		57.576	100.259	-1.103	1.00 44.99	6
MOTA	6466	0	PRO C		57.491		0.101	1.00 44.13	8
ATOM	6467	N	LEU C		56.544		-1.830	1.00 64.77	7
ATOM	6468	CA	LEU C		55.242		-1.203	1.00 64.97	6
ATOM	6469	CB		378	54.240		-2.199 -2.337	1.00 83.43 1.00 84.69	6 6
ATOM ATOM	6470 6471	CG CD1	LEU C		54.400 55.849		-2.676	1.00 85.16	6
ATOM	6472	CD2	LEU C			103.489	-3.402	1.00 84.91	6
ATOM	6473	C	LEU C		54.722	99.581	-0.605	1.00 64.76	6
ATOM	6474	0	LEU C		53.809	99.588	0.214	1.00 65.34	8
ATOM	6475	N	GLU C		55.296		-1.038	1.00 42.46	7
ATOM	6476	CA	GLU C		54.943	97.166	-0.497	1.00 41.70 1.00100.82	6 6
ATOM ATOM	6477 6478	CB CG	GLU C		54.995 54.363	96.091 94.776	-1.580 -1.173	1.00103.75	6
ATOM	6479	CD	GLU C		52.895	94.920	-0.812	1.00105.94	6
ATOM	6480	OE1	GLU C		52.151	95.538	-1.601	1.00107.50	8
MOTA	6481	OE2	GLU C	379	52.481		0.254	1.00107.21	8
MOTA	6482	C	GLU C		56.117		0.457	1.00 40.89	6
ATOM	6483	0	GLU C		57.064		0.365	1.00 40.81	8 7
ATOM ATOM	6484 6485	N CA	ALA C		56.085 57.179	96.072 95.951	1.365 2.319	1.00100.07 1.00 98.75	6
ATOM	6486	CB	ALA C		58.546		1.603	1.00 32.13	6
ATOM	6487	C	ALA C		57.030		3.299	1.00 97.64	6

ATOM 6528 CE1 PHE C 385 51.977 101.504 11.594 1.00 37.75 6 ATOM 6529 CE2 PHE C 385 50.293 101.171 9.922 1.00 39.49 6 ATOM 6530 CZ PHE C 385 50.662 101.620 11.179 1.00 38.51 6 ATOM 6531 C PHE C 385 52.756 97.691 9.555 1.00 40.74 6 ATOM 6532 O PHE C 385 52.773 97.085 10.621 1.00 40.68 8 ATOM 6533 N PHE C 386 51.688 97.740 8.765 1.00 28.00 7 ATOM 6534 CA PHE C 386 50.450 97.090 9.142 1.00 27.86 6 ATOM 6535 CB PHE C 386 49.583 96.816 7.916 1.00 48.14 6 ATOM 6536 CG PHE C 386 48.604 97.905 7.641 1.00 47.19 6 ATOM 6537 CD1 PHE C 386 48.604 97.905 7.641 1.00 47.19 6 ATOM 6538 CD2 PHE C 386 48.912 98.915 6.739 1.00 46.13 6 ATOM 6539 CE1 PHE C 386 47.418 97.989 8.375 1.00 46.56 6 ATOM 6540 CE2 PHE C 386 48.060 100.004 6.570 1.00 44.96 6 ATOM 6541 CZ PHE C 386 46.880 100.085 7.314 1.00 44.87 6 ATOM 6542 C PHE C 386 50.594 95.824 9.966 1.00 28.13 6 ATOM 6543 O PHE C 386 49.966 95.712 11.009 1.00 27.05 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\frac{4}{5}, \frac{6}{6}, \frac$	N CAB OG C O N CAB	GLN C 393	51.539 51.007 51.207 52.967 53.502 54.870 55.883 56.209 56.968 57.689 58.063 57.689 58.063 57.381 53.341 53.344 53.325 54.789 56.7733 57.351 52.462 51.910 52.048 50.688 51.031 49.820 48.774 50.698 51.0411 49.820 48.774 50.139 49.715 48.867 49.482 47.215 48.967 49.482 48.774 59.866 48.967 49.482 47.225 47.360 46.354 48.969	103.590 99.089 99.678 97.909 97.169 96.792 95.907 95.890 94.831 95.990 94.925 95.540 96.720 97.211 96.725 98.187 93.850	9.533 10.3428 10.3438 10.7590 11.6214 10.9635 12.1960 11.019.5555 12.9954 10.4355 10.4355 10.4355 10.435 10	1.00 46.21 1.00 85.53 1.00 90.30 1.00 46.84 1.00 45.92 1.00 47.13 1.00 47.20 1.00 30.87 1.00 28.44 1.00 25.75 1.00 24.51 1.00 23.12 1.00 47.76	7668687666676776876686876666876876666687668766868766
				46.929 46.520				

ATOM MOTA	6600 6601	CA CB	PHE C 394 PHE C 394		45.819 46.088	91.735 90.558	17.611 18.496	1.00101.57 1.00 55.89	6 6
ATOM ATOM	6602 6603	CG	PHE C 394 PHE C 394		45.937 47.022	89.199 88.610	17.814 17.163	1.00 56.43 1.00 56.75	6 6
MOTA	6604	CD2	PHE C 394		44.729 46.903	88.501 87.378	17.847 16.571	1.00 56.42 1.00 55.89	6 6
MOTA MOTA	6605 6606	CE1 CE2	PHE C 394 PHE C 394		44.614	87.263	17.251	1.00 56.09	6
MOTA	6607	CZ	PHE C 394		45.701	86.706	16.613 17.908	1.00 56.21 1.00102.12	6 6
ATOM ATOM	6608 6609	C 0	PHE C 394 PHE C 394		44.386 44.148	92.136 93.111	18.590	1.00105.06	8
ATOM	6610	N	LYS C 395		43.398	91.433	17.396	1.00 43.81 1.00 42.16	7 6
ATOM ATOM	6611 6612	CA CB	LYS C 395 LYS C 395		42.047 41.163	91.882 91.329	17.648 16.587	1.00 42.10	6
ATOM	6613	CG	LYS C 395		39.781	91.752	16.820	1.00 28.08 1.00 27.79	6 6
MOTA MOTA	6614 6615	CD CE	LYS C 395 LYS C 395		39.421 37.907	92.968 93.165	15.985 15.857	1.00 27.79	6
ATOM	6616	NZ	LYS C 395		37.246	92.603	14.623	1.00 30.18 1.00 42.33	7 6
ATOM ATOM	6617 6618	C 0	LYS C 395 LYS C 395		41.661 41.706	91.354 90.197	18.981 19.193	1.00 44.26	8
ATOM	6619	N	ASP C 396		41.363	92.120	19.918 21.255	1.00 50.17 1.00 49.83	7 6
ATOM ATOM	6620 6621	CA CB	ASP C 396 ASP C 396		40.920 40.968	91.730 92.942	21.255 22.177	1.00 62.41	6
ATOM	6622	CG	ASP C 396		40.953	92.600 92.509	23.650 24.213	1.00 63.51 1.00 64.56	6 8
ATOM ATOM	6623 6624	OD1 OD2	ASP C 396 ASP C 396		39.859 42.030	92.530	24.284	1.00 62.94	8
ATOM	6625	C	ASP C 396		39.518 38.765	91.320 92.120	20.926 20.429	1.00 49.88 1.00 50.51	6 8
MOTA MOTA	6626 6627	O N	ASP C 396 GLU C 397		39.080	90.123	21.021	1.00 56.43	7
MOTA	6628	CA	GLU C 397 GLU C 397		37.715 37.666	89.814 89.323	20.676 19.251	1.00 55.07 1.00 49.17	6 6
ATOM ATOM	6629 6630	CB CG	GLU C 397		37.220	90.347	18.256	1.00 54.30	6 6
MOTA	6631 6632	CD OE1	GLU C 397 GLU C 397		37.118 36.404	89.754 90.376	16.863 16.030	1.00 58.33 1.00 60.41	8
ATOM ATOM	6633	OE2	GLU C 397		37.749	88.677	16.650	1.00 60.82 1.00 52.66	8 6
MOTA MOTA	6634 6635	C 0	GLU C 397 GLU C 397		37.006 36.171	88.814 88.083	21.516 20.991	1.00 53.22	8
MOTA	6636	N	THR C 398		37.320	88.765	22.800 23.652	1.00 28.42 1.00 25.27	7 6
MOTA ATOM	6637 6638	CA CB	THR C 398		36.665 37.247	87.811 87.863	25.038	1.00 19.82	6
MOTA	6639	OG1	THR C 398		38.607	88.268 86.489	24.933 25.695	1.00 19.57 1.00 18.63	8 6
ATOM ATOM	6640 6641	CG2 C	THR C 398		37.222 35.177	88.132	23.682	1.00 25.57	6
MOTA	6642	0	THR C 398	;	34.360 34.811	87.249 89.379	23.430 23.988	1.00 26.94 1.00 37.48	8 7
ATOM ATOM	6643 6644	N CA	ASN C 399 ASN C 399)	33.392	89.759	23.996	1.00 35.58	6
MOTA	6645	CB	ASN C 399)	32.902 32.983	90.052 91.536	25.448 25.855	1.00 21.35 1.00 19.01	6 6
MOTA MOTA	6646 6647	CG OD1		}	32.951	91.854	27.043	1.00 17.99	8
ATOM	6648 6649	ND2 C	ASN C 399 ASN C 399		33.059 33.212	92.437 90.945	24.884 23.040	1.00 17.39 1.00 35.20	7 6
ATOM ATOM	6650	0	ASN C 399)	34.146	91.715	22.825	1.00 35.32 1.00 48.40	8 7
ATOM ATOM	6651 6652	N CD	PRO C 400 PRO C 400		32.015 30.737	91.103 90.377	22.442 22.567	1.00 16.55	6
MOTA	6653	CA	PRO C 400)	31.877	92.238 92.226	21.531 21.168	1.00 47.22 1.00 14.25	6 6
ATOM ATOM	6654 6655	CB CG	PRO C 400 PRO C 400		30.374 29.724		22.247	1.00 13.87	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 666655890123456678901234567789012345666666666666666666666666666666666666$	ND1 CE1 NE2 C O N	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	400 401 401 401 401 401 401 402 402 402 402 403 403 403 403 403 404 404 404 404 404	38.886 40.214 40.476 41.925 42.673 42.777 43.990 43.954 40.507 41.665 39.474	93.595 94.2959 95.2554 97.2559 96.6533 95.4554 97.6333 96.4333 92.1747 94.3834 92.1747 94.241 94.383 92.1747 94.199 96.934 97.0546 97.0546 97.0546 97.0546 97.0546 97.0546 97.0546 97.0546 98.333 98.333 98.333 98.333 98.333 99.433 99.333 99.	22.040 21.290 23.290 23.764 25.262 25.889 25.329 27.359 23.486 22.876 23.946 23.779 23.812 24.805 22.439 21.380 20.079 18.963 18.498 19.860 19.346 20.234 20.092 20.672 20.794 19.523 21.115 20.852 20.141 21.381 22.447 21.761 21.181 22.447 21.761 21.181 22.447 21.761 21.181 20.246 20.20 219.694 19.620 20.013 19.621 18.682	1.00 46.64 1.00 28.24 1.00 27.85 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 28.34 1.00 28.00 1.00 15.21 1.00 38.02 1.00 39.19 1.00 16.19 1.00 16.43 1.00 62.46 1.00 67.82 1.00 17.34 1.00 62.46 1.00 67.82 1.00 17.00 1.01 15.83 1.00 27.97 1.00 28.89 1.00 19.89 1.00 19.85 1.00 19.89 1.00 19.85 1.00 29.54 1.00 29.54 1.00 35.76 1.00 38.91 1.00 66.63 1.00 71.12 1.00 73.97 1.00 40.60 1.00 71.68 1.00 77.42 1.00 40.60 1.00 71.68 1.00 71.27 1.00 45.63 1.00 45.63 1.00 45.63 1.00 45.64 1.00 45.63 1.00 45.64 1.00 46.13 1.00 45.64	6876666687668687668687666666876666767676876
MOTA MOTA	6705 6706 6707 6708 6709 6710	C 0	HIS C HIS C LYS C LYS C LYS C LYS C	406 406 407 407 407 407	40.507 41.665 39.474 39.699 38.658 37.803	99.480 99.834 100.052 101.145 101.092 99.846	20.220 20.013 19.621 18.682 17.572 17.643	1.00 70.89 1.00 71.72 1.00 32.66 1.00 32.24 1.00 49.47 1.00 50.89	6 8 7 6 6 6
ATOM	6711	CD	LYS C	407	37.825	99.073	16.360	1.00 51.05	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	6768 6769 6770 6771 6772 6773 6777 6777 6777 6778 6778 6778 6778	ONCACECONACONACECOCONACEGOCONACEGOCONACECO	ARG C 42 ARG C 42 ARG C 42 GLU C 42	55.778 54.565 56.957 56.957 56.957 56.957 56.957 56.957 57.383 58.644 57.069 56.956 58.600 58.601 58.602 58.603 58.603 60.914 59.450 60.914 61.291 62.642 63.59.450 57.544 56.928 56.537 57.57.804 58.207 57.58 57.770 56.834 56.834 56.915 56.834 56.834 56.834 57.770 56.831 56.915 56.831 56.925 57.770 56.831 56.831 56.935 57.770 56.831 56.935 57.770 5	110.979 109.829 110.086 111.587 112.004 111.406 113.523 109.578 110.018 108.637 108.025 107.117 107.908 106.383 107.176 106.020 107.745 107.055 107.326 108.674 109.843 111.139 112.314 112.366 113.442 105.554 104.928 104.981 103.543 103.151 103.081 102.170 102.442 101.177 102.964 103.724 101.641 101.021	20.529 17.829 17.826 17.826 16.781 17.279 17.236 16.781 17.225 17.251 18.941 18.941 18.953 19.660 20.407 21.845 19.655 20.407 21.845 20.21.845 20	1.00 59.87 1.00 67.48 1.00 42.19 1.00 69.41 1.00 43.88 1.00 42.95 1.00 71.76 1.00 72.81 1.00 73.40 1.00 76.08 1.00 79.56 1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00178.48 1.00178.98 1.00178.98 1.00175.50 1.00179.32 1.00179.32 1.00179.32 1.00179.90 1.00 96.26 1.00 95.44 1.00 56.35 1.00 56.35 1.00 56.39 1.00 56.35 1.00 56.35 1.00 56.35 1.00 77.71 1.00 77.71 1.00 77.96 1.00104.02 1.00105.07 1.00104.02 1.00105.07 1.00106.46 1.00106.73 1.00106.73 1.00106.90 1.00 77.77 1.00 66.20 1.00 67.97 1.00131.33 1.00134.22 1.00134.22 1.00 68.71 1.00 68.46 1.00 76.71 1.00 78.22 1.00169.99	8766666876687668766666687668668766676776876668868766
MOTA MOTA MOTA MOTA				2 58.513 2 60.001	99.586 99.471			

ATOM ATOM ATOM ATOM ATOM	6824 6825 6826 6827 6828	NE CZ NH1 NH2 C	ARG C 4 ARG C 4 ARG C 4 ARG C 4	22 22 22	59.588 59.774 60.759 58.973 58.365	97.355 96.108 95.373 95.594 101.853	30.236 30.662 30.166 31.586 29.766	1.00175.15 1.00175.32 1.00175.51 1.00175.57 1.00 78.41	7 6 7 7 6
ATOM	6829	0	ARG C 4		57.577	101.999	30.691	1.00 77.73	8
ATOM ATOM	6830 6831	N CA	ALA C 4 ALA C 4		59.572 60.073	102.411 103.253	29.742 30.823	1.00 83.10 1.00 83.57	7 6
ATOM	6832	CB		23	61.008	102.442	31.717	1.00150.52	6
ATOM	6833	C	ALA C 4		60.799	104.507	30.293	1.00 83.97	6
ATOM ATOM	6834 6835	N O	ALA C 4 GLY C 4		61.761 60.318	104.982 105.042	30.903 29.170	1.00 83.60 1.00195.59	8 7
ATOM	6836	CA		24	60.923	106.225	28.569	1.00196.13	6
ATOM	6837	С	GLY C 4			107.343	29.559	1.00196.47	6
ATOM	6838 6839	O	GLY C 4 PHE C 4		60.606 62.092	107.373 108.271	30.636 29.200	1.00196.41 1.00134.14	8 7
ATOM ATOM	6840	N CA	PHE C 4		62.436	109.370	30.102	1.00134.14	6
ATOM	6841	СВ	PHE C 4	25	63.622	110.182	29.559	1.00106.82	6
ATOM	6842	CG		25	64.887	109.996	30.360	1.00107.16	6
ATOM ATOM	6843 6844	CD1 CD2	PHE C 4 PHE C 4		65.712 65.210	108.894 110.877	30.144 31.393	1.00106.92 1.00107.62	6 6
ATOM	6845	CE1		25	66.838	108.665	30.950	1.00107.04	6
MOTA	6846	CE2	PHE C 4		66.335	110.656	32.205	1.00108.30	6
ATOM ATOM	6847 6848	CZ C	PHE C 4	.25 .25	67.147	109.546 110.307	31.981 30.458	1.00107.74 1.00132.93	6 6
ATOM	6849	0		25		111.294	29.764	1.00132.53	8
MOTA	6850	N	ASP C 4	26	60.618	109.960	31.564	1.00158.69	7
ATOM	6851	CA		26	59.477	110.654	32.177	1.00157.54	6 6
ATOM ATOM	6852 6853	CB CG	ASP C 4		59.177 58.398	112.010 111.878	31.500 30.205	1.00 82.48 1.00 81.86	6
ATOM	6854	OD1		26	58.453	110.801	29.573	1.00 81.36	8
ATOM	6855	OD2	ASP C 4		57.740	112.872	29.817	1.00 80.99	8
ATOM ATOM	6856 6857	C O	ASP C 4 ASP C 4	26	58.237 57.144	109.757 110.175	32.193 31.827	1.00156.95 1.00157.14	6 8
ATOM	6858	N		27	58.433	108.515	32.631	1.00169.51	7
ATOM	6859	CA	VAL C 4	27	57.359	107.528	32.730	1.00168.75	6
ATOM ATOM	6860 6861	CB CG1	VAL C 4 VAL C 4	.27	57.885 56.744	106.173 105.174	33.236 33.375	1.00 80.98 1.00 80.25	6 6
ATOM	6862	CG1	VAL C 4		58.921	105.174	32.294	1.00 80.23	6
ATOM	6863	C	VAL C 4		56.307	108.007	33.714	1.00168.67	6
ATOM	6864	0	VAL C 4			108.690	33.335	1.00169.83	8
ATOM ATOM	6865 6866	N CA	ARG C 4			107.643 108.053	34.982 36.013	1.00 89.40 1.00 88.38	7 6
ATOM	6867	CB	ARG C 4			107.524	37.372	1.00 92.50	6
MOTA	6868	CG	ARG C 4		56.396	106.053	37.278	1.00 93.10	6
ATOM ATOM	6869 6870	CD NE	ARG C 4 ARG C 4			105.316 103.984	38.606 38.474	1.00 93.12 1.00 93.43	6 7
ATOM	6871	CZ	ARG C 4			103.024	39.390	1.00 93.85	6
ATOM	6872	NH1	ARG C 4		56.214	103.235	40.518	1.00 94.45	7
ATOM	6873 6874	NH2	ARG C 4		57.460 55.473	101.855 109.575	39.184 35.974	1.00 94.29 1.00 87.64	7 6
ATOM ATOM	687 <u>4</u> 6875	C O	ARG C 4			110.206	35.256	1.00 87.84	8
ATOM	6876	N	ASP C 4	29	54.552	110.161	36.731	1.00110.57	7
ATOM	6877	CA	ASP C 4			111.612 112.413	36.735 36.476	1.00110.32 1.00112.49	6 6
ATOM ATOM	6878 6879	CB CG	ASP C 4 ASP C 4			112.413	37.332	1.00112.49	6
				-				- · - ·	

ATOM 6880 ATOM 6881 ATOM 6881 ATOM 6882 ATOM 6883 ATOM 6884 ATOM 6885 ATOM 6886 ATOM 6887 ATOM 6888 ATOM 6889 ATOM 6890 ATOM 6891 ATOM 6891 ATOM 6892 ATOM 6893 ATOM 6895 ATOM 6896 ATOM 6897 ATOM 6898 ATOM 6897 ATOM 6898 ATOM 6897 ATOM 6900 ATOM 6901 ATOM 6907 ATOM 6908 ATOM 6908 ATOM 6907 ATOM 6910 ATOM 6911 ATOM 6911 ATOM 6912 ATOM 6913 ATOM 6913 ATOM 6914 ATOM 6915 ATOM 6917 ATOM 6918 ATOM 6919 ATOM 6910 ATOM 6911 ATOM 6912 ATOM 6913 ATOM 6914 ATOM 6915 ATOM 6916 ATOM 6917 ATOM 6918 ATOM 6920 ATOM 6921 ATOM 6921 ATOM 6921 ATOM 6921 ATOM 6923 ATOM 6924 ATOM 6925 ATOM 6925	OD1 ASP C 429 OD2 ASP C 429 C ASP C 429 O ASP C 429 N VAL C 430 CA VAL C 430 CB VAL C 430 CG1 VAL C 430 CG2 VAL C 430 O VAL C 430 O VAL C 431 CA HIS C 431 CB HIS C 431 CC HIS C 431 ND1 HIS C 431 ND1 HIS C 431 NE2 HIS C 431 NE2 HIS C 431 O HIS C 431 C HIS C 431 C HIS C 432 CA ARG C 432 CA ARG C 432 CB ARG C 433 CB THR C 433 CG THR C 434 CB HIS C 434	56.609 111.595 57.963 111.983 53.393 111.861 52.361 112.516 53.762 111.329 52.964 111.459 53.655 110.792 52.653 110.543 54.761 111.689 51.627 110.789 50.587 111.449 51.671 109.472 50.471 108.672 50.774 107.547 51.914 106.654 52.648 105.771 52.351 106.538 53.300 105.619 53.499 105.138 49.320 109.545 48.240 109.602 49.589 110.232 48.640 111.120 49.373 112.334 50.103 112.065 50.796 113.321 51.412 113.112 52.165 114.013 52.398 115.190 52.683 113.745 47.473 111.614 47.605 111.897 46.324 111.707 45.118 112.186 43.924 112.264 43.121 111.092 43.054 113.474 45.919 114.447 45.975 113.756 45.254 115.025 45.573 114.800 44.764 113.716 43.760 112.938 44.982 113.319 44.147 112.342 43.394 112.091	38.508 36.823 35.566 35.712 34.402 33.187 31.979 30.862 31.478 33.389 33.363 33.579 34.797 34.394 35.113 33.092 33.027 34.239 34.328 33.731 35.441 36.700 38.008 38.522 34.328 33.731 36.165 36.700 38.08 38.522 36.301 36.165 35.312 36.301 36.165 36.776 35.486 33.504 32.826 31.341 30.691 31.158 29.084 30.139	1.00113.98 1.00112.70 1.00109.53 1.00109.81 1.00111.98 1.00110.45 1.00 68.68 1.00 67.72 1.00 69.29 1.00109.91 1.00110.52 1.00 80.56 1.00 78.57 1.00 55.43 1.00 55.43 1.00 53.93 1.00 53.95 1.00 78.25 1.00 78.25 1.00 78.27 1.00180.77 1.00183.68 1.00186.25 1.00189.10 1.00191.25 1.00191.83 1.00192.15 1.00191.83 1.00192.15 1.00 45.55	886876666876666767687666676776876686687666767
ATOM 6921 ATOM 6922 ATOM 6923 ATOM 6924 ATOM 6925 ATOM 6926	CB HIS C 434 CG HIS C 434 CD2 HIS C 434 ND1 HIS C 434 CE1 HIS C 434 NE2 HIS C 434	45.573 114.800 44.764 113.716 43.760 112.938 44.982 113.319 44.147 112.342 43.394 112.091	31.341 30.691 31.158 29.389 29.084 30.139	1.00144.78 0.00144.14 0.00143.69 0.00143.69 0.00143.54	6 6 7 6 7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	69333901234456789012345678901234566789012334567890 6993394123456789012345678901234566789012345667890	CE2 CZ OH C O N CA C C O N CA C C C C O N C C C C C O N C C C C C O N C C C C	VAL C 44 VAL C 44 GLU C 44	47.482 120.109 3 48.796 120.390 3 42.102 117.978 3 40.948 118.405 3 42.712 117.650 3 42.007 117.692 3 41.179 116.407 3 41.598 115.412 2 40.007 116.424 3 39.119 115.263 3 38.202 115.375 3 7.287 116.577 3 6.395 116.602 3 5.064 117.071 3 4.135 117.411 3 4.389 117.337 3 2.953 117.832 3 38.269 115.004 2 37.055 115.243 2 38.928 114.486 2 38.304 114.161 2 38.672 115.195 2 37.485 115.435 2 39.127 116.519 2 39.368 117.667 2 39.368 117.667 3 39.31 112.820 2 39.014 112.458 2 39.323 112.102 3 39.978 110.817 4 41.477 111.086 4 42.633 109.723 2 39.978 110.191 2 39.559 110.873 3 39.304 108.885 2 39.304 108.885 3 39.890 107.984 38.896 108.117 3 39.559 110.873 3 39.304 108.885 3 39.890 107.984 38.896 108.117 3 39.559 110.873 3 39.304 108.885 3 39.890 107.984 38.896 108.117 3 39.708 108.401 40.929 108.486 3 39.708 108.401 40.929 108.486 3 39.304 108.522 3 39.731 108.816 3 38.906 109.788 3 38.906 109.788 3 38.906 109.788 3 39.899 105.199 3 39.525 106.430 3 39.809 105.199 3 39.525 106.430 3 39.809 105.199 3 38.748 104.879 3 36.302 104.513 3 36.533 103.548 3	84.499 83.1936 83.1	0.00 77.84 0.00 77.79 0.00 78.17 1.00 68.74 1.00 69.03 1.00 67.62 1.00 69.36 1.00 72.11 1.00 55.47 1.00 52.65 1.00 51.14 1.00 51.08 1.00 52.43 1.00 52.43 1.00 52.43 1.00 52.84 1.00 52.84 1.00 52.84 1.00 52.84 1.00 52.84 1.00 52.84 1.00 74.85 1.00 74.85 1.00 73.00 1.00 47.22 1.00 44.57 1.00 72.42 1.00 75.33 1.00 77.21 1.00 75.33 1.00 47.34 1.00 76.68 1.00 77.75 1.00 34.22 1.00 105.10 1.00 34.23 1.00 105.80 1.00 34.21 1.00 37.66 1.00 36.60 1.00 86.60 1.00 86.60 1.00 87.79 1.00 89.95 1.00 89.95 1.00 89.95	6686876687666767768766666687666687666687666687666688
MOTA MOTA	6990 6991	OE2 C	GLU C 44 GLU C 44		36.861	1.00 89.95	8 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$7048 \\ 7049 \\ 7051 \\ 2345 \\ 6789 \\ 01523 \\ 4567 \\ 7055 \\ 890 \\ 123 \\ 70055 \\ 890 \\ 123 \\ 7005 \\ 70$	CG CD1 CD2 C O N CAB CG1 C O N CAB CGC CD1 CD2 C O N CAB CGC C O N CAB CCD1 CD2 C O N CAB CCD1 CD2 C O N CAB CCD1 CD2 CCC CCC CCC CCC CCC CCC CCC CCC CCC	LEU LLE CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	4451 455	53.644 53.644 53.644 649.004 647.466 647.466 648.910 648.9150 648.9150 648.9150 649.1094 649.10	110.535 111.565 112.617 112.305 111.161 110.917 113.191 112.963 111.832 111.627	29.809 29.498.093 27.7171 27.717126.7810 27.51726.7810 27.618	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	28.64 28.64 28.64 28.64 28.64 28.64 29.66 20.73 20.66 20.73 20.66 20.73 20	6666876666687668668766868766868766666876668766687666666
ATOM MOTA	7101 7102 7103	C O	TYR C TYR C	458	32.224	112.273 113.158	23.031 22.206	1.00	40.86	6 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7104 7105 7106 7107 7108 7109 7111 7112 7113 7114 7115 7116 7117 7122 7123 7124 7125 7126 7127 7128 7129 7130 7131 7133 7134 7135 7136 7137 7138 7136 7137 7138 7138 7139 7140 7141 7142 7143 7144 7144 7144 7144 7144 7144 7144	CG2 C O N CA CB C O N CA CB CC CD1 CD2 C	VAL C 4 VAL C 4 VAL C 4 ALA C	599990000000000111111111222223333344444444444	34.681 35.948 34.663 35.5904 37.435 37.435 38.847 40.927 41.574 41.574 34.9249	116.401 117.314 116.564 117.845 119.005 118.052 117.228 119.137 119.423 120.887 119.147 119.978 117.967 117.507 116.008 115.419 116.035 113.913 117.786	23.372 22.852 23.525 21.349 20.572 20.967 19.588 19.205 17.721 17.377 17.692 16.811 18.302 18.346 18.349 17.565 16.535 15.824 16.535 15.824 14.752 13.796 14.752 13.046 14.752 13.046 13.165 12.273 11.522 11.040 12.469 13.318 12.313 13.435 14.447 15.817 14.817 14.8187 12.8184	1.00 61.61 1.00 63.60 1.00181.11 1.00 64.59 1.00 65.49 1.00 66.70 1.00 68.41 1.00 52.09 1.00 50.99 1.00 50.98 1.00 52.62 1.00 51.72 1.00 53.37 1.00 70.46 1.00 70.85 1.00174.70 1.00175.02 1.00 46.89 1.00 47.41 1.00 45.72 1.00175.88 1.00176.25 1.00122.51 1.00123.73 1.00 28.29 1.00125.07 1.00125.53 1.00128.67 1.00128.13 1.00 50.08 1.00127.82 1.00128.71 1.00 54.63 1.0014.51 1.0014.51 1.0014.51 1.0014.04	766687666767768766666876668766687666668
MOTA	7140	CG	LEU C 4	64	40.430	115.419	14.447		6 6
ATOM ATOM	7143 7144	0	LEU C 4			117.780	12.030 12.154		8
MOTA	7145	N	GLY C 4		41.581	118.912	13.348	1.00 98.23	7
MOTA	7146	CA	GLY C 4	65		119.278	13.148	1.00 96.83	6
MOTA	7147	C	GLY C 4		43.717		14.147	1.00 96.13	6
ATOM	7148	0	GLY C 4			117.980	13.879 15.298	1.00 95.71 1.00 84.96	8 7
ATOM ATOM	7149 7150	N	PHE C 4			118.196 117.378	16.383	1.00 84.90	6
ATOM	7151	CA CB	PHE C 4			117.811	16.710	1.00 75.66	6
ATOM	7152	CG	PHE C 4		45.199		17.341	1.00 75.74	6
MOTA	7153	CD1			44.847	119.421	18.669	1.00 75.04	6
ATOM	7154	CD2				120.265	16.619	1.00 75.64	6
ATOM	7155	CE1				120.656	19.272 17.220	1.00 75.12 1.00 74.81	6 6
ATOM ATOM	7156 7157	CE2 CZ	PHE C 4			121.511 121.702	18.547	1.00 74.81	6
ATOM	7158	C	PHE C 4			117.348	17.677	1.00 73.30	6
ATOM	7159	Ö	PHE C 4			117.890	17.756	1.00 80.79	8

ATOM 7212 NH1 ARG C 472 33.499 119.766 28.436 1.00 46.95 7 ATOM 7213 NH2 ARG C 472 35.748 120.175 28.196 1.00 47.86 7	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7160 7161 7162 7163 7164 7165 7166 7167 7167 7173 7174 7177 7177 7177 7178 7177 7178 7181 7188 7188 7188 7199 7191 7193 7194 7195 7197 7197 7197 7197 7197 7197 7197	N CAB CG1 C C O N C C C C O N C C C C O O N C C C C	ARG C 468 ARG C 468 ARG C 469 THR C 469 PRO C 470 PRO C 471 TYR C 472 ARG C 472 ARG C 472 ARG C 472 ARG C 472	43.395 116.681 42.888 116.482 43.575 117.476 43.261 117.123 45.090 117.367 45.907 118.427 41.403 116.366 40.613 117.291 41.089 115.184 39.781 114.749 39.993 113.970 41.068 112.935 41.819 112.761 42.908 111.817 43.681 111.375 43.487 111.796 44.647 110.505 38.578 115.666 37.467 115.218 38.762 116.911 37.618 117.830 37.348 118.700 36.958 117.865 38.578 119.489 36.261 117.182 35.666 116.455 35.737 117.473 36.260 118.385 34.457 116.892 34.534 116.963 35.172 118.308 33.304 117.716 33.425 118.405 32.182 117.654 31.016 118.403 29.879 117.433 30.055 116.756 31.199 116.012 31.398 115.467 29.109 116.923 29.305 116.376 30.449 115.656 30.646 115.138 30.626 119.316 30.895 119.013 30.017 120.450 29.589 121.380 30.739 122.306 32.014 121.578 32.857 122.380 34.206 121.839	18.667 20.033 20.973 22.413 20.775 21.464 20.366 20.960 21.723 22.5773 22.6606 21.389 24.618 21.389 22.247 20.995 20.627 21.828 21.8848 21.726 22.892 24.437 24.025 23.683 22.726 24.437 24.025 23.741 22.726 24.437 24.025 23.741 22.726 24.437 24.025 23.741 22.777 21.319 20.777 21.319 20.777 21.319 20.777 21.319 20.777 21.319 20.777 21.319 20.777 21.319 20.777 21.319 20.777	1.00 42.94 1.00 41.29 1.00110.42 1.00109.50 1.00112.81 1.00116.18 1.00 38.46 1.00 37.83 1.00 64.17 1.00 61.14 1.00 65.30 1.00 62.63 1.00 62.42 1.00 62.87 1.00 62.17 1.00 62.37 1.00 62.37 1.00 59.37 1.00 59.37 1.00 27.33 1.00 77.07 1.00 77.37 1.00 77.37 1.00 77.50 1.00 25.69 1.00 25.69 1.00 25.93 1.00 39.55 1.00 24.20 1.00 38.89 1.00 25.93 1.00 39.55	7666666876667677687668668766668876666666
ATOM 7214 C ARG C 472 28.403 122.210 25.414 1.00 60.34 6 ATOM 7215 O ARG C 472 28.386 122.726 24.301 1.00 61.28 8	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7207 7208 7209 7210 7211 7212 7213 7214	CB CG CD NE CZ NH1 NH2	ARG C 472 ARG C 472	30.739 122.306 32.014 121.578 32.857 122.380 34.206 121.839 34.486 120.594 33.499 119.766 35.748 120.175 28.403 122.210	26.280 26.692 27.671 27.775 28.139 28.436 28.196 25.414	1.00 47.34 1.00 46.47 1.00 46.11 1.00 47.37 1.00 47.44 1.00 46.95 1.00 47.86 1.00 60.34	6 6 6 7 6 7 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7216 7217 7218 7219 7220 7221 7222 7223 7224 7225 7226 7227 7228 7229 7230 7231 7232 7233 7234 7235 7236 7237	N CA CB CC NH1 NH2 C O N CA CG1 CG2 C O N CA CB CCB CCB CCB CCB CCB CCB CCB CCB C	VAL C 474 VAL C 474 VAL C 475 ALA C 475 ALA C 475 ALA C 475 ALA C 475	27.403 122.330 26.227 123.115 25.078 122.723 23.718 122.857 22.651 122.179 21.331 122.309 20.197 121.877 20.222 121.278 19.035 122.055 26.575 124.604 27.644 124.956 25.678 125.474 25.880 126.924 26.764 127.410 26.961 128.919 28.103 126.694 24.482 127.505 24.228 128.288 23.572 127.085 22.171 127.507 22.074 129.017 21.429 126.837	26.272 25.943 26.869 26.235 27.073 26.459 27.007 28.194 26.378 26.584 25.651 25.517 24.510 24.573 24.511 25.517 24.591 26.390 26.346 26.224 25.188	1.00 55.07 1.00 56.77 1.00 63.20 1.00 63.69 1.00 64.69 1.00 66.59 1.00 67.61 1.00 68.38 1.00 58.13 1.00 58.42 1.00 43.60 1.00 45.65 1.00105.12 1.00107.36 1.00104.39 1.00 46.42 1.00 46.13 1.00 68.26 1.00 69.34 1.00 69.26	7666676776876666687666
ATOM ATOM ATOM	7238 7239 7240 7241	O N CA	ALA C 476 ALA C 476 ALA C 476	21.237 127.431 21.031 125.590 20.295 124.784 18.887 125.337	24.121 25.422 24.455 24.294	1.00 67.34 1.00 62.24 1.00 64.22 1.00146.64	8 7 6 6
ATOM ATOM ATOM	7241 7242 7243 7244	CB C O N	ALA C 476 ALA C 476 ALA C 476 GLY C 477	18.887 125.337 20.969 124.690 20.937 123.640 21.561 125.802	24.294 23.098 22.453 22.677	1.00 65.26 1.00 64.43 1.00116.21	6 8 7
ATOM ATOM ATOM	7245 7246	CA C	GLY C 477 GLY C 477	22.239 125.890 22.437 124.574	21.399 20.684	1.00118.42 1.00118.96	6 6
ATOM	7247	O	GLY C 477	21.511 124.034	20.075	1.00119.12	8
ATOM	7248	N	ALA C 478	23.654 124.057	20.761	1.00 84.50	7
ATOM	7249	CA	ALA C 478	23.970 122.803	20.109	1.00 85.41	6
ATOM	7250	CB	ALA C 478	24.664 123.065	18.782	1.00170.39	6
ATOM	7251	C	ALA C 478	24.859 121.962	21.001	1.00 85.57	6
MOTA	7252	O	ALA C 478	24.391 121.074	21.704	1.00 84.87	8
MOTA	7253	N	VAL C 479	26.149 122.247		1.00 65.43	7
ATOM ATOM	7254 7255	CA CB	VAL C 479 VAL C 479	27.096 121.505 27.087 120.012	21.766 21.413	1.00 66.60	6
ATOM	7256		VAL C 479	26.146 119.259	22.325	1.00 80.61	6
ATOM	7257		VAL C 479	26.686 119.835	19.963	1.00 80.04	6
ATOM	7258		VAL C 479	28.484 122.036	21.507	1.00 67.45	6
MOTA	7259	O	VAL C 479	29.404 121.748	22.266 20.439	1.00 67.56	8
MOTA	7260	N	THR C 480	28.633 122.814		1.00 38.12	7
MOTA	7261	CA	THR C 480	29.930 123.373	20.091	1.00 37.95	6
MOTA	7262	CB	THR C 480	30.187 124.735		1.00 59.69	6
ATOM	7263	OG1	THR C 480	31.528 125.179	20.545	1.00 60.79	8
ATOM	7264	CG2	THR C 480	30.001 124.605	22.300	1.00 59.28	6
ATOM	7265	C	THR C 480	31.027 122.407	20.495	1.00 38.63	6
MOTA MOTA	7266 7267	N O	THR C 480 GLU C 481	31.440 122.378 31.485 121.601	21.653 19.546	1.00 30.03 1.00 37.92 1.00 70.47	8 7
ATOM	7268	CA	GLU C 481	32.553 120.649	19.819	1.00 72.47	6
ATOM	7269	CB	GLU C 481	33.082 120.056	18.512	1.00208.87	6
ATOM	7270	CG	GLU C 481	32.010 119.706	17.478	1.00208.87	6
ATOM	7271	CD	GLU C 481	31.548 120.907	16.661	1.00208.87	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7272 7273 7274 7275 7276 7277 7278 7279 7280 7281 7282 7283 7284 7285 7286 7287 7288 7290 7291 7292 7293 7294 7295 7296 7297 7298 7297 7300 7301 7302 7308 7309 7310	OE2 CONCABCONCABCCONCACACACCONCACACACCONCACACACCONCACACACCONCACACACA	VAL C 484 VAL C 484 VAL C 485 ALA C 485 ALA C 485 ALA C 485 ALA C 485 MET C 486 ALA C 487	30.845 121.784 17.209 1.00208.87 8 31.893 120.978 15.461 1.00208.87 8 33.655 121.449 20.506 1.00 71.91 6 34.351 122.237 19.868 1.00 72.01 8 33.796 121.258 21.812 1.00 73.53 7 34.796 121.982 22.580 1.00 74.20 6 34.829 121.473 24.006 1.00 70.38 6 36.173 121.870 21.959 1.00 75.30 6 36.348 121.224 20.929 1.00 75.99 8 37.144 122.521 22.593 1.00132.12 7 38.531 122.523 22.136 1.00132.18 6 39.430 122.585 23.366 1.00131.50 6 39.430 122.585 23.366 1.00131.50 6 39.509 123.609 24.032 1.00131.50 6 40.988 121.318 24.498 1.00145.56 6 42.856 120.000 25.774 1.0046.545
				36.659 130.007 29.202 1.00158.59 8
MOTA	7311	N	ALA C 488	30.230 223.233
MOTA	7312	CA	ALA C 488	34.841 129.689 27.065 1.00194.23 6 33.970 128.658 26.290 1.00 20.13 6
ATOM	7313	СВ	ALA C 488 ALA C 488	33.970 128.658 26.290 1.00 20.13 6 34.273 129.936 28.462 1.00194.39 6
ATOM	7314 7315	C 0	ALA C 488	33.604 129.083 29.042 1.00195.34 8
ATOM ATOM	7315	N	ALA C 489	34.579 131.124 28.981 1.00108.29 7
ATOM	7317	CA	ALA C 489	34.156 131.609 30.292 1.00107.01 6
ATOM	7318	СВ	ALA C 489	33.173 132.745 30.111 1.00 21.82 6
MOTA	7319	С	ALA C 489	33.582 130.606 31.281 1.00106.31 6
MOTA	7320	0	ALA C 489	32.551 130.878 31.894 1.00106.68 8 34.243 129.463 31.447 1.00 94.59 7
ATOM	7321	N	ALA C 490	
ATOM	7322 7323	CA CB	ALA C 490 ALA C 490	33.788 128.438 32.389 1.00 93.90 6 33.302 129.098 33.676 1.00 13.87
ATOM ATOM	7323	CB	ALA C 490	32.699 127.506 31.861 1.00 93.34
ATOM	7325	0	ALA C 490	31.927 127.859 30.972 1.00 95.08
MOTA	7326	N	GLU C 491	32.652 126.307 32.427 1.00 45.09
MOTA	7327	CA	GLU C 491	31.659 125.310 32.067 1.00 43.70

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7328 7329 73331 73333 73333 73333 73333 73333 73333 73341 73343 73343 73353 73353 73353 73353 73353 73353 73353 73353 73353 73353 73353 73353 73373 73	CB CG CD 12 CO N C CB CG CD N C CB CG CD CD N C CB CD N CCB CCCCCCCCCC	GLU C 493 ALA C 493 ALA C 493 ALA C 493 ARG C	33.573 34.161 34.108 34.688 30.978 31.634 29.666 28.905 27.734 28.410 27.500 29.016 28.694 29.323 30.851 31.522 32.980 33.820 33.363 35.123 27.208 26.394 26.889 25.515 25.564 24.221 23.343 22.156 23.294 26.889 21.844 20.709 24.619 25.062 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618 23.355 22.294 22.618	122.314 122.151 121.481 124.972 124.938 124.749 124.442 125.398 123.009 122.647 122.210 120.795 120.229 120.303 119.616 119.785 119.257 118.521 119.456 120.505 121.260 119.396 117.505 116.860 117.368 116.705 115.677 115.009 115.526 114.845 118.925 118.926 119.334 119.446 117.329 118.385 119.446 119.334 119.446 119.334 119.446 118.329 121.829 121.829 121.829 121.829 121.829 122.358 123.443 123.443 123.443 123.443 123.443 123.579 122.579 122.23	31.460 32.195 31.612 30.374 32.388 33.381 34.422 33.342 34.553 34.563 34.563 35.5863 36.838 37.999 38.885 37.999 38.885 37.999 34.713 34.177 34.895 34.713 34.773 34.773 34.773 34.773 34.773 35.547 34.773 34.773 34.773 37.786 37.7978 37.79	1.00101.46 1.00103.12 1.00103.44 1.00103.66 1.00102.72 1.00 43.30 1.00 43.64 1.00 48.24 1.00 47.20 1.00126.11 1.00 47.18 1.00 47.47 1.00 93.61 1.00 93.11 1.00 61.11 1.00 58.90 1.00 57.23 1.00 54.51 1.00 52.88 1.00 51.83 1.00 51.83 1.00 51.83 1.00 57.29 1.00 82.33 1.00 83.47 1.00 80.31 1.00 81.49 1.00 82.02 1.00 82.19 1.00 82.33 1.00 82.56 1.00 82.33 1.00 82.56 1.00 83.98 1.00 60.16 1.00111.91 1.00112.57 1.00 98.93 1.00 99.57 1.00113.56 1.00113.56 1.00113.56 1.00113.56 1.00105.36 1.00106.23 1.00106.23 1.00106.61 1.00106.73	66688687666876667677687666666668687668668
ATOM ATOM ATOM ATOM ATOM	7377 7378 7379 7380 7381	CB C O N CA	ALA C 49° ALA C 49° ALA C 49° ALA C 49° ALA C 49°	7 17.616 7 16.589 7 16.060 8 16.082 8 14.827	120.611 122.579 122.223 123.516 124.200	34.831 35.969 37.024 35.178 35.455	1.00140.99 1.00106.61 1.00106.73 1.00105.43 1.00106.36	6 8 7 6
MOTA MOTA	7382 7383	CB C	ALA C 49		125.547	36.146 34.082	1.00 32.90 1.00106.88	6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	73886789012345677399901234990123499901234999012349990123499901234999999999999999999999999999999999999	OD2 C O N CA CB	ASP C 506 ASP C 506 ARG C 507 ARG C 507	25.609 128.442 26.570 129.162 25.132 128.427 25.026 127.210 24.542 126.082 25.683 127.624 25.907 126.735 25.913 127.528	41.391 42.403 42.636 42.799 42.646 42.806 44.159 45.207 44.876 46.361 41.694 41.796 40.617 39.493 38.176	1.00107.64 1.00111.52 1.00111.25 1.00120.72 1.00110.44 1.00110.80 1.00 43.61 1.00 43.08 1.00114.29 1.00115.71 1.00117.56 1.00115.42 1.00 42.38 1.00 41.72 1.00 58.14 1.00 58.92 1.00174.72 1.00176.53 1.00175.70 1.00 57.69 1.00 56.54 1.00 51.85 1.00194.50 1.00 51.85 1.00194.75 1.00 83.31 1.00 82.70 1.00 83.31 1.00 82.70 1.00 83.31 1.00 82.70 1.00 61.52 1.00 61.35 1.00150.60 1.00 61.52 1.00 61.35 1.00150.60 1.00 60.28 1.00 59.15 1.00 89.86 1.00 90.42 1.00 90.60 1.00 91.07 1.00 82.76 1.00 81.70 1.00 66.91 1.00 66.91 1.00 66.91 1.00 66.91 1.00 66.91 1.00 68.18	8766687666876886687666668766687666876668766876688766688687666
MOTA	7435	CA	ARG C 507	25.907 126.735 25.913 127.528 24.603 128.259 23.667 127.447	39.493 38.176 37.838 36.925	1.00 57.88	6

ATOM 744 ATOM 745 ATOM 746 ATOM 747 ATOM 748	NH1 NH2	ARG C 512 ARG C 512 ALA C 513	21.711 127.902 21.953 126.812 20.686 128.679 27.267 126.094 28.287 126.763 27.276 124.810 28.528 124.088 28.281 122.634 29.423 122.182 26.928 122.516 26.782 123.365 29.201 124.047 28.743 123.347 30.287 124.791 30.936 124.835 30.547 126.118 32.441 124.699 33.103 124.973 32.963 124.276 34.387 124.060 34.670 122.720 33.839 121.663 36.116 122.308 34.898 125.202 34.344 125.480 35.938 125.879 36.535 126.947 36.831 128.715 36.832 127.907 37.384 129.834 38.033 126.725 38.574 126.629 38.688 126.604 40.122 126.357 40.927 127.487 42.398 127.386 43.316 128.011 44.680 127.551 45.720 127.823 46.912 127.332 40.927 127.487 42.398 127.386 43.316 128.011 44.680 127.551 45.720 127.823 45.570 128.568 46.912 127.332 40.927 127.487	35.114 39.726 39.609 40.314 40.777 41.678 41.492 42.747 38.950 38.789 37.515 38.37.515 38.37.515 38.37.38 35.3897 35.3897 35.36.3799 36.7791 35.3893 36.789 37.783 36.783 37.783 36.783 37.783	1.00 66.55 1.00 67.25 1.00 66.00 1.00 57.63 1.00 57.50 1.00 61.89 1.00 62.24 1.00 88.29 1.00 87.84 1.00 92.22 1.00 62.15 1.00 62.15 1.00 53.21 1.00107.64 1.00 53.71 1.00 53.71 1.00 53.71 1.00 53.71 1.00 53.78 1.00 30.63 1.00 32.20 1.00 79.27 1.00 79.86 1.00 80.57 1.00 33.62 1.00 85.09 1.00172.77 1.00174.27 1.00173.99 1.00 86.28 1.00 86.46 1.00 86.90 1.00 86.90 1.00 96.74 1.00 96.67 1.00 96.67 1.00 96.67 1.00 96.37 1.00 96.67 1.00 96.67 1.00 96.37 1.00 96.67 1.00 96.67 1.00 96.67 1.00 96.67 1.00 96.74 1.00 96.67 1.00 96.67 1.00 96.74	677687666668766687668668766688668766676776876
ATOM 748 ATOM 748 ATOM 748 ATOM 748 ATOM 748	79 CZ 30 NH1 31 NH2 32 C 33 O	ARG C 512 ARG C 512 ARG C 512 ARG C 512 ARG C 512	45.720 127.823 45.570 128.568 46.912 127.332 40.482 125.039 40.539 123.993	35.757 36.843 35.451 34.561 33.915	1.00 96.51 1.00 97.43 1.00 95.66 1.00 88.16 1.00 88.76	6 7 7 6 8
ATOM 748 ATOM 748 ATOM 748 ATOM 748 ATOM 748 ATOM 748	35 CA 36 CB 37 C 38 O	ALA C 513 ALA C 513 ALA C 513 ALA C 513 ALA C 513 ALA C 514	40.722 125.096 41.086 123.908 42.563 123.963 40.242 123.771 39.400 122.873 40.478 124.663	36.616 36.978 37.874 37.972	1.00141.03 1.00141.99 1.00124.59 1.00141.81 1.00141.21 1.00 56.61	6 6 8 7
ATOM 749 ATOM 749 ATOM 749 ATOM 749 ATOM 749 ATOM 749	90 CA 91 CB 92 C 93 O 94 N	ALA C 514 ALA C 514 ALA C 514 ALA C 514 ALA C 515 ALA C 515	39.745 124.653 39.916 125.989 38.260 124.365 37.675 124.770 37.662 123.655 36.248 123.320	40.094 40.800 39.871 38.859 40.819	1.00 56.03 1.00 86.46 1.00 56.39 1.00 56.05 1.00 79.23 1.00 80.00	6 6 8 7 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	74989779901234750012345677550011234567755222345677553334567755477554899011234567755223456775533345547755489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489901123456775489011234567754899011234567754890112345677554890112345677548901123456789011234567754890112345677548901123456775489011234567754890112345677548901123456775489011234567754890112345677548901123456775489011234567754890112345677548901123456775489011234567754890112345678901123456789011234567890112345678901123456789011234567890112346789011234567800000000000000000000000	CBCONCABCONCONCONCONCONCONCONCONCONCONCONCONCONC	ARG C 516 ARG C 516 ARG C 517 ARG C 518 ALA C 519 GLY C 519 GLY C 519 GLY C 519 GLY C 520 ALA C 521 PRO C 521 ALA C 522 ALA C 523 ALA C 523 ALA C 523	30.759 129.473	5375557577537566676776876668766876668766
				24.499 134.348 30.776 1.00 81.38 22.161 133.503 31.070 1.00135.17	

ATOM 7604 CB ASP C 533 29.153 118.488 30.815 1.00118.04 6 ATOM 7605 CG ASP C 533 30.377 119.314 31.092 1.00119.82 6	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7555456789012375555667757577777777777777777777777777	N C B C O N C C C C O O N C C C O O N C C C O O N C C C O O N C C C O O N C C C O O N C C C O O N C C C C	ALA C 524 ALA C 525 ALA C 526 PRO C 527 ALA C 528 ALA C 529 ALA C 530 ALA C 531 ALA C 532 MET C 532	21.728 132.410 20.631 131.582 19.303 132.271 20.788 131.299 21.040 130.160 20.609 132.336 20.779 132.240 20.321 133.532 22.287 132.059 23.009 132.243 22.788 131.771 22.311 132.434 24.231 131.581 24.677 132.935 23.575 133.212 24.881 131.715 24.287 130.095 24.705 129.485 24.608 127.986 26.107 129.872 27.074 129.546 26.206 130.545 27.488 130.992 27.687 130.398 28.638 130.583 29.355 129.626 28.798 131.018 31.159 130.779 29.386 129.768 28.406 129.810 30.106 128.663 29.747 127.402 30.852 126.936 29.536 126.378 29.626 125.177 29.252 126.877	31.702 31.208 31.483 29.309 28.898 27.452 26.791 28.289 24.397 25.461 27.732 27.853 27.732 27.854 27.735 28.8970 24.393 27.735 27.854 27.735 28.8970 24.393 27.499 28.9963 28.9963 29.563 30.645 27.675 27.675 27.675 27.675 27.675 28.9966 27.675 27.675 28.9966 27.9966 27.675 28.9966 27.675 28.9966 27.675 28.9966 27.675 28.9966 27.675 28.9966 27.675 28.9966 27.675 28.9966 27.996	1.00120.70 1.00120.84 1.00194.26 1.00120.68 1.00120.75 1.00141.28 1.00140.31 1.00135.97 1.00139.91 1.00139.53 1.00159.42 1.00208.87 1.00208.87 1.00159.07 1.00208.87 1.00159.08 1.00119.34 1.00119.34 1.00117.87 1.00118.65 1.00186.63 1.00 25.37 1.00186.63 1.00 25.37 1.00186.63 1.00 25.37 1.00186.75 1.00208.87	7666876668766687666876668766687666876668766687666876
ATOM 7606 ODI ASP C 533 30.962 119.851 30.126 1.00120.65 6 ATOM 7607 OD2 ASP C 533 30.758 119.421 32.274 1.00120.99 8	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7599 7600 7601 7602 7603 7604 7605 7606	CE C O N CA CB CG OD1	MET C 532 MET C 532 MET C 532 ASP C 533 ASP C 533 ASP C 533 ASP C 533	22.767 121.732 27.920 121.596 28.729 121.845 27.597 120.358 28.167 119.201 29.153 118.488 30.377 119.314 30.962 119.851	30.820 30.205 29.304 30.561 29.894 30.815 31.092 30.126	1.00108.74 1.00 80.11 1.00 79.97 1.00 45.22 1.00 42.94 1.00118.04 1.00119.82 1.00120.83	6 6 8 7 6 6 8

ATOM 7610 N VAL C 534	MOTA MOTA	7608 7609	0	ASP C 533 ASP C 533	26.354 1		29.470 30.304	1.00 40.69	6 8
ATOM 7612 CB VAL C 534								1.00 43.30	6
ATOM 7614 CG2 VAL C 534 27.060 117.801 25.536 1.00 55.70 6 ATOM 7615 C VAL C 534 27.102 115.012 28.200 1.00 42.30 8 ATOM 7616 O VAL C 534 27.102 115.012 28.200 1.00 42.30 8 ATOM 7617 N SER C 535 25.336 115.516 29.480 1.00 31.85 7 ATOM 7618 CA SER C 535 25.336 115.516 29.480 1.00 31.85 7 ATOM 7618 CA SER C 535 25.336 115.516 29.480 1.00 31.85 7 ATOM 7619 CB SER C 535 25.380 114.314 30.315 1.00 30.44 6 ATOM 7619 CB SER C 535 25.380 114.314 30.315 1.00 30.44 6 ATOM 7619 CB SER C 535 25.380 114.172 30.991 1.00 29.50 8 ATOM 7621 C SER C 535 26.837 114.172 30.991 1.00 29.50 6 ATOM 7622 O SER C 535 26.837 114.172 30.991 1.00 29.50 8 ATOM 7623 N PRO C 536 26.920 113.298 31.985 1.00 57.81 7 ATOM 7624 CD PRO C 536 26.920 113.298 31.985 1.00 57.81 7 ATOM 7625 CA PRO C 536 28.163 113.074 32.709 1.00 57.22 6 ATOM 7627 CG PRO C 536 28.163 113.074 32.709 1.00 57.22 6 ATOM 7627 CG PRO C 536 28.163 113.074 32.709 1.00 57.22 6 ATOM 7629 O PRO C 536 28.163 113.074 32.709 1.00 57.22 6 ATOM 7629 O PRO C 536 28.163 113.074 32.709 1.00 57.09 6 ATOM 7629 O PRO C 536 28.163 113.074 32.709 1.00 57.09 6 ATOM 7629 O PRO C 536 29.005 112.003 32.058 1.00 57.09 6 ATOM 7629 O PRO C 536 29.005 112.003 32.058 1.00 57.09 6 ATOM 7629 O PRO C 536 29.005 112.003 32.058 1.00 57.09 6 ATOM 7631 CA LYS C 537 28.365 111.127 31.294 1.00 66.52 7 ATOM 7631 CA LYS C 537 28.951 11.00 47 29.504 1.00 67.06 6.52 7 ATOM 7631 CA LYS C 537 28.951 11.00 47 29.504 1.00 67.06 6.52 7 ATOM 7634 CD LYS C 537 28.951 11.00 47 29.504 1.00 67.06 6.52 7 ATOM 7637 C LYS C 537 28.951 11.00 47 29.504 1.00 67.06 6.52 7 ATOM 7639 N GLYS C 537 28.951 11.00 47 29.504 1.00 67.06 6.22 7 ATOM 7639 N GLYS C 537 28.951 11.00 43 29.915 1.00 64.77 6 ATOM 7639 N GLYS C 537 30.382 110.539 30.018 1.00 63.46 6 ATOM 7640 CB GLN C 538 30.340 111.738 29.441 1.00 71.51 6 ATOM 7640 CB GLN C 538 30.30 111.203 30.085 1.00 64.27 6 ATOM 7650 CB LYS C 537 31.486 11.234 39.915 1.00 64.28 6 ATOM 7650 CB LYS C 537 31.486 11.234 39.915 1.00 64.77 6 ATOM 7650 CB LYS C 539 33.766 112.294 30.089 1.00 64.28 6			CB	VAL C 534	26.208 1	16.733			
ATOM 7615 C VAL C 534 26.176 115.768 28.479 1.00 41.63 6 ATOM 7616 O VAL C 534 27.102 115.012 28.200 1.00 42.30 8 ATOM 7617 N SER C 535 25.366 115.516 29.480 1.00 31.85 7 ATOM 7618 CA SER C 535 25.480 114.314 30.315 1.00 30.44 6 ATOM 7619 CB SER C 535 25.480 114.314 30.315 1.00 52.78 6 ATOM 7621 C SER C 535 25.480 114.314 30.315 1.00 52.78 6 ATOM 7621 C SER C 535 26.837 114.172 30.991 1.00 52.78 6 ATOM 7622 O SER C 535 27.797 114.846 30.651 1.00 29.50 6 ATOM 7622 O SER C 535 27.797 114.846 30.651 1.00 29.50 6 ATOM 7622 O SER C 535 27.797 114.846 30.651 1.00 29.50 6 ATOM 7622 O SER C 536 26.920 113.298 31.985 1.00 57.81 7 ATOM 7624 CD PRO C 536 25.784 112.903 32.819 1.00 35.93 6 ATOM 7625 CA PRO C 536 28.163 113.074 32.709 1.00 57.22 6 ATOM 7626 CB PRO C 536 28.163 113.074 32.709 1.00 57.22 6 ATOM 7626 CB PRO C 536 29.005 112.003 32.088 1.00 35.52 6 ATOM 7627 CG PRO C 536 29.005 112.003 32.088 1.00 57.09 6 ATOM 7629 O PRO C 536 30.212 111.962 32.257 1.00 58.55 8 ATOM 7630 N LYS C 537 28.365 111.127 31.294 1.00 66.57 7 ATOM 7631 CA LYS C 537 28.365 111.127 31.294 1.00 66.52 7 ATOM 7632 CB LYS C 537 28.365 111.127 31.294 1.00 66.52 7 ATOM 7633 CB LYS C 537 28.204 109.472 29.504 1.00 67.55 8 ATOM 7633 CB LYS C 537 28.204 109.472 29.504 1.00 69.21 6 ATOM 7636 N LYS C 537 28.204 109.472 29.504 1.00 69.21 6 ATOM 7638 O LYS C 537 28.204 109.472 29.504 1.00 69.21 6 ATOM 7638 O LYS C 537 28.204 109.873 30.028 1.00 73.76 6 ATOM 7636 N LYS C 537 31.406 109.853 30.028 1.00 73.76 6 ATOM 7636 N LYS C 537 31.406 109.853 30.028 1.00 69.21 6 ATOM 7636 N LYS C 537 31.406 109.853 30.028 1.00 66.23 8 ATOM 7637 C LYS C 537 31.406 109.853 30.028 1.00 66.23 8 ATOM 7639 N CLYS C 537 31.406 109.853 30.028 1.00 66.23 8 ATOM 7640 CA GLN C 538 31.406 109.853 30.287 1.00 28.74 6 ATOM 7640 CA GLN C 538 31.406 109.853 30.287 1.00 29.75 6 ATOM 7640 CA GLN C 538 31.406 109.853 30.287 1.00 29.75 6 ATOM 7640 CA GLN C 538 31.361 116.639 28.232 1.00 26.62 6 ATOM 7650 C VAL C 539 33.598 112.238 30.969 1.00 61.78 7 ATOM 7650 C VAL C 539 33.598 112.23									
ATOM 7616 O VAL C 534								1.00 41.63	
ATOM 7618 CA SER C 535			O	VAL C 534					
ATOM 7619 CB SER C 535									
ATOM 7621 C SER C 535 26.837 114.172 30.991 1.00 29.50 6 ATOM 7622 O SER C 535 26.837 114.172 30.991 1.00 29.50 6 ATOM 7622 O SER C 535 27.797 114.846 30.651 1.00 29.50 6 ATOM 7622 O SER C 536 27.797 114.846 30.651 1.00 29.54 8 ATOM 7624 CD PRO C 536 26.920 113.298 31.985 1.00 57.81 7 ATOM 7624 CD PRO C 536 25.784 112.903 32.819 1.00 35.93 6 ATOM 7625 CA PRO C 536 27.685 112.636 34.082 1.00 35.93 6 ATOM 7627 CG PRO C 536 27.685 112.636 34.082 1.00 35.52 6 ATOM 7627 CG PRO C 536 29.005 112.003 32.058 1.00 57.22 6 ATOM 7627 CG PRO C 536 29.005 112.003 32.058 1.00 57.99 6 ATOM 7629 O PRO C 536 29.005 112.003 32.058 1.00 57.99 6 ATOM 7630 N LYS C 537 28.365 111.127 31.294 1.00 66.52 7 ATOM 7631 CA LYS C 537 29.072 110.045 30.620 1.00 64.77 6 ATOM 7632 CB LYS C 537 28.365 111.127 31.294 1.00 66.52 7 ATOM 7633 CG LYS C 537 29.072 110.045 30.620 1.00 67.06 6 ATOM 7634 CD LYS C 537 24.456 108.743 29.123 1.00 73.76 6 ATOM 7637 C LYS C 537 24.456 108.743 29.123 1.00 73.76 6 ATOM 7637 C LYS C 537 31.406 109.853 30.085 1.00 76.52 7 ATOM 7639 N GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 29.268 1.00 28.714 6 ATOM 7645 CG GLN C 538 31.497 112.314 29.268 1.00 28.716 6 ATOM 7645 CG GLN C 538 31.361 116.639 28.237 1.00 29.72 6 ATOM 7640 CA GLN C 538 31.361 116.639 28.237 1.00 29.73 6 ATOM 7640 CA GLN C 538 31.361 116.639 28.238 1.00 26.62 6 ATOM 7645 CG GLN C 538 31.361 116.639 28.238 1.00 26.62 6 ATOM 7655 CB PHE C 540 33.269 112.294 31.827 1.00 64.28 6 ATOM 7656 CB PHE C 540 33.267 10.997 31.044 1.00 65.62 6 ATOM 7659 CD PHE C 540 3					25.198 1	13.049	29.505	1.00 52.78	6
ATOM 7621 C SER C 535 27.797 114.846 30.651 1.00 29.54 8 ATOM 7623 N PRO C 536 26.920 113.298 31.985 1.00 57.81 7 ATOM 7624 CD PRO C 536 28.163 113.074 32.709 1.00 35.93 6 ATOM 7625 CA PRO C 536 28.163 113.074 32.709 1.00 57.22 6 ATOM 7627 CG PRO C 536 29.005 112.003 32.819 1.00 35.98 6 ATOM 7627 CG PRO C 536 29.005 112.003 32.058 1.00 57.09 6 ATOM 7627 CG PRO C 536 30.212 111.962 32.257 1.00 58.55 8 ATOM 7630 N LYS C 537 28.365 111.127 31.294 1.00 66.52 7 ATOM 7631 CA LYS C 537 29.072 110.045 30.620 1.00 64.77 6 ATOM 7632 CB LYS C 537 28.204 109.472 29.504 1.00 67.06 6 ATOM 7633 CG LYS C 537 25.935 108.782 28.744 1.00 71.51 6 ATOM 7635 CE LYS C 537 24.456 108.743 29.123 1.00 73.76 6 ATOM 7636 NZ LYS C 537 30.382 110.539 30.018 1.00 65.23 8 ATOM 7630 N LYS C 537 31.406 109.853 30.085 1.00 65.23 8 ATOM 7640 CA GLN C 538 30.402 111.738 29.443 1.00 14.62 7 ATOM 7641 CB GLN C 538 31.497 112.314 28.794 1.00 65.23 8 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7644 CD LYS C 537 30.382 110.539 30.018 1.00 65.23 8 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7644 CD GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7644 CD GLN C 538 31.497 112.314 28.794 1.00 26.62 6 ATOM 7644 CD GLN C 538 31.497 112.314 28.794 1.00 13.87 6 ATOM 7640 CA GLN C 538 31.497 112.314 28.794 1.00 26.62 6 ATOM 7647 0 GLN C 538 31.497 112.314 28.794 1.00 26.62 6 ATOM 7646 C GLN C 538 32.741 112.413 29.669 1.00 13.87 6 ATOM 7646 C GLN C 538 32.741 112.413 29.669 1.00 13.87 6 ATOM 7647 0 GLN C 538 32.741 112.413 29.669 1.00 13.87 6 ATOM 7647 0 GLN C 538 32.741 112.413 29.669 1.00 28.74 6 ATOM 7646 C GLN C 538 32.741 112.413 29.669 1.00 28.74 6 ATOM 7647 0 GLN C 539 33.397 112.686 33.274 1.00 62.62 6 ATOM 7655 C C VAL C 539 33.397 112.686 33.274 1.00 62.62 6 ATOM 7655 C C VAL C 539 33.397 112.686 33.291 1.00 42.82 6 ATOM 7656 C C VAL C 539 33.397 112.686 33.291 1.00 42.82 6 ATOM 7656 C C VAL C 539 33.397 112.686 33.293 1.00 25.34 6 ATOM 7656 C C VAL C 539		7620	OG	SER C 535	23.802 1	12.782			
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ATOM 7635 CE LYS C 537					25.935 1	108.782	28.744	1.00 71.51	
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ATOM 7661 CE1 FIRE C 540 34.344 108.325 35.697 1.00 26.61 6 34.344 108.325 35.697 1.00 25.32 6	MOTA	7660							6
22 (65 100 440 36 067 1 00 25 32 6								1.00 26.61	6
AIOM 7003 CZ IIII C 340	ATOM	7663	CZ	PHE C 540			36.067	1.00 25.32	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7664 7666 7666 7666 7666 7676 7677 7677	C O N CA CB OG C O N C CB C CD C C C C C C C C C C C C C C C	ASN C 545 ASN C 546 LEU C 547 ILE C 547 ILE C 547 ILE C 547	34.271 107.8 33.837 108.2 34.913 106.6 35.186 105.6 36.327 104.7 36.199 104.5 33.971 104.8 33.198 104.4 33.835 104.3 32.697 103.5 32.870 103.1 31.622 102.4 30.413 103.3 31.804 102.1 33.309 101.6 32.926 100.4 33.774 99.2 35.259 99.3 35.756 100.4 35.985 98.2 32.826 100.7 32.380 99.8 33.211 101.9 33.058 102.1 33.889 103.3 35.242 102.9 33.332 103.9 33.31601 102.5 33.3889 103.3 35.242 102.9 33.332 103.9 33.117 103.3 29.273 104.3 29.957 105.6 29.700 106.6 30.835 105.5 28.403 100.2 29.273 104.3 29.957 105.6 29.700 106.6 30.835 105.5 28.403 100.2 29.273 104.3 29.273 104.3 29.273 104.3 29.273 104.3 29.273 104.3 29.273 104.3 29.273 104.3 29.273 104.3 29.273 104.3 29.3845 102.5 29.374 100.6 30.835 105.5 28.403 100.2 29.374 100.8 29.384 100.8 29.384 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8 30.831 100.8	14 28.764 30.009 28.952 28.952 39.393 30.780 28.664 27.390 26.976 32 25.533 25.57 24.973 38 25.206 23.501 28.291 28.67 28.291 29.086 23.501 31.331 28.936 29.145 29.145 30.583 31.331 31.034 32.451 32.944 32.580 32.451 32.944 36.31.034 32.944 36.31.331 31.678 37.43 30.566 38.43 32.944 36.29 32.580 37.43 30.566 38.99 32.713 31.713 31.678 31.713 31.561 31.31.900 29.493 32.870 33.589 33.589 33.598 33.598 33.598 33.593 34.195 34.93 34.195 35.637 <th>1.00 56.85 1.00 57.37 1.00 50.86 1.00 49.99 1.00 61.30 1.00 65.14 1.00 48.71 1.00 48.33 1.00 55.24 1.00 53.98 1.00 17.92 1.00 15.59 1.00 15.59 1.00 15.84 1.00 54.34 1.00 55.12 1.00 39.01 1.00 39.30 1.00 35.95 1.00 36.82 1.00 37.92 1.00 37.92 1.00 37.92 1.00 56.20 1.00 23.10 1.00 21.43 1.00 20.88 1.00 57.34</th> <th>687668687666666876687687668668766876687</th>	1.00 56.85 1.00 57.37 1.00 50.86 1.00 49.99 1.00 61.30 1.00 65.14 1.00 48.71 1.00 48.33 1.00 55.24 1.00 53.98 1.00 17.92 1.00 15.59 1.00 15.59 1.00 15.84 1.00 54.34 1.00 55.12 1.00 39.01 1.00 39.30 1.00 35.95 1.00 36.82 1.00 37.92 1.00 37.92 1.00 37.92 1.00 56.20 1.00 23.10 1.00 21.43 1.00 20.88 1.00 57.34	687668687666666876687687668668766876687
ATOM	7714	CG2	ILE C 547 ILE C 547 ILE C 547 ILE C 547 ILE C 547	29.344 100.8 30.831 100.0 32.127 100.5 27.160 101.2 27.216 102.3	347 37.900 362 36.074 337 36.711 205 36.211 399 36.485	1.00 56.07 1.00 54.53 1.00 53.36 1.00 26.96 1.00 25.95	6 6 6 8
MOTA	7719	N	PRO C 548	26.065 100.4	173 36.451	1.00 55.58	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7720 7721 7722 7723 7724 7725 7726 7727 7728 7729 7730 7731 7732	CD CA CB CG O N CA CB CG CD1 CD2 CE1	PRO C PRO C PRO C PHE C PHE C PHE C PHE C PHE C PHE C	548 548 548 548 548 549 549 549 549 549 549	26.037 24.846 23.954 24.900 25.049 24.279 26.061 26.220 25.645 24.130 23.387 23.449 21.989	99.021 101.063 99.849 98.866 101.897 102.819 101.611 102.467 101.798 101.793 100.840 102.708 100.795	36.671 36.977 37.190 37.658 38.222 38.473 39.022 40.191 41.446 41.503 40.798 42.295 40.889	1.00 35.60 1.00 55.04 1.00 33.94 1.00 34.54 1.00 55.38 1.00 57.14 1.00 32.51 1.00 33.20 1.00 27.42 1.00 24.30 1.00 23.85 1.00 22.95 1.00 22.47	6666687666666
ATOM ATOM	7733 7734	CE2 CZ		549 549	22.058 21.331	102.665 101.704	42.387 41.682	1.00 23.27 1.00 22.31	6 6
ATOM	7735	C	PHE C	549	27.650	102.941	40.445	1.00 33.28	6
ATOM	7736	0	PHE C	549	28.181 28.252	102.811 103.525	41.549 39.412	1.00 33.61 1.00 29.32	8 7
ATOM ATOM	7737 7738	N CA		550 550	29.619	103.325	39.412	1.00 29.32	6
ATOM	7739	CB	LEU C	550	30.009	104.696	38.156	1.00 46.50	6
MOTA	7740	CG		550	31.458	105.140	37.930	1.00 45.08	6
ATOM	7741	CD1		550 550	32.372 31.594	103.940 105.833	37.982 36.586	1.00 46.72 1.00 43.39	6 6
ATOM ATOM	7742 7743	CD2 C	LEU C	550	29.723	105.033	40.621	1.00 43.39	6
MOTA	7744	Ö		550	30.572	104.864	41.492	1.00 27.19	8
MOTA	7745	N	GLU C	551	28.842	106.019	40.613	1.00 28.00	7
MOTA	7746 7747	CA CB		551 551	28.824 27.403	107.078 107.611	41.627 41.844	1.00 30.78 1.00103.26	6 6
ATOM ATOM	7748	СВ СG	GLU C	551	26.502	107.571	40.629	1.00103.20	6
ATOM	7749	CD	GLU C	551	25.687	106.302	40.575	1.00108.97	6
MOTA	7750	OE1	GLU C	551	26.287	105.213	40.571	1.00108.75	8
ATOM ATOM	7751 7752	OE2 C	GLU C	551 551	24.443 29.395	106.392 106.666	40.544 42.978	1.00110.84 1.00 31.42	8 6
ATOM	7753	0	GLU C	551	30.171	107.403	43.564	1.00 31.42	8
ATOM	7754	N	HIS C	552	29.010	105.491	43.466	1.00 50.43	7
ATOM	7755	CA	HIS C	552	29.490	105.001	44.754	1.00 51.46	6
ATOM	7756 7757	CB CG	HIS C	552 552	28.470 27.067	104.047 104.544	45.341 45.220	1.00 54.12 1.00 54.38	6 6
ATOM ATOM	7758	CD2	HIS C	552	26.123	104.312	44.276	1.00 55.28	6
ATOM	7759	ND1	HIS C	552	26.505	105.428	46.115	1.00 54.20	7
ATOM	7760		HIS C			105.715	45.728	1.00 55.46	6
MOTA MOTA	7761 7762	NE2 C	HIS C		25.019 30.830	105.054 104.306	44.614 44.599	1.00 55.94 1.00 51.10	7 6
ATOM	7763	0	HIS C		31.788	104.632	45.288	1.00 53.17	8
ATOM	7764	N	ASP C	553	30.893	103.337	43.701	1.00 52.36	7
MOTA	7765	CA	ASP C				43.435	1.00 51.21	6
MOTA MOTA	7766 7767	CB CG	ASP C ASP C		32.087 31.310	102.026 100.750	42.036 41.982	1.00 32.32 1.00 32.47	6 6
MOTA	7768	OD1			30.513	100.478	42.896	1.00 33.28	8
ATOM	7769	OD2	ASP C	553	31.498		41.006	1.00 31.58	8
MOTA	7770 7771	C	ASP C ASP C			103.576 104.580	43.504 42.786	1.00 50.90 1.00 51.83	6 8
ATOM ATOM	7772	O N	ASP C			104.560	44.367	1.00 31.65	7
MOTA	7773	CA	ASP C	554	35.501	104.050	44.509	1.00 31.93	6
ATOM	7774	CB	ASP C			103.475	45.612	1.00 68.27	6
ATOM	7775	CG	ASP C	554	37.684	104.218	45.756	1.00 72.84	6

ATOM 7826 CA GLY C 561 35.384 96.393 36.781 1.00 29.22	MOTA	7826	OD2 CONCABCONCONCECONEZ NH1 CONCABCONCONCECONEZ NH2 CONCABCON CONCABCON CABCON		37.984 104.697 46.872 1.0 36.224 103.971 43.181 1.0 36.417 102.881 42.639 1.0 36.608 105.130 42.653 1.0 37.301 105.204 41.370 1.0 38.172 106.459 41.315 1.0 38.146 103.956 41.128 1.0 37.787 103.107 40.318 1.0 39.254 103.842 41.853 1.0 40.163 102.705 41.735 1.0 41.039 102.614 42.984 1.0 42.215 100.622 42.368 1.0 43.443 102.395 43.000 1.0 39.482 101.351 41.500 1.0 39.574 100.778 40.417 1.0 38.807 100.831 42.515 1.0 38.387 97.18 44.108 1.0 37.297 99.222 43.582 1.0 37.297 99.222 43.582 1.0 38.387 97	00 65.96 00 64.43 00 26.99 00 24.27 00 22.59 00 22.25 00 22.39 00 22.25 00 22.91 00 64.64 00 19.66 00 18.12 00 46.30 00 17.77 00 15.92 00 13.87 00 14.05 00 13.87 00 14.05 00 13.87 00 13.87 00 13.87 00 13.87 00 13.87 00 13.87 00 13.87 00 13.87 00 13.87 00 24.05 00 24.05 00 24.05 00 29.22	8868766687666876876666767768766687666687666876668766
	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7824 7825 7826 7827 7828 7829 7830	O N CA C O N CA	MET C 560 GLY C 561 GLY C 561 GLY C 561 GLY C 561 SER C 562 SER C 562	37.54794.81737.3651.36.62796.86237.3501.35.38496.39336.7811.35.36296.94635.3751.35.04096.25834.4131.35.71098.21635.2581.35.74698.84233.9651.	00 13.87 00 28.68 00 29.22 00 30.05 00 30.74 00 21.52 00 23.76	8 7

ATOM 7832 OG SER C 562 36.642 100.776 32.800 1.00 54.47	8355538377125685547122542120866674777159777657024896956876668766687666876666666
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ATOM ATOM	7888 7889	N CD		570	31.265 32.055	85.427 85.698	25.948 24.740	1.00 29.95 1.00 50.59	7 6
ATOM	7890	CA		570	29.908	85.027	25.579	1.00 31.13	6
ATOM	7891 7892	CB CG	PRO C S	570 570	29.953 31.394	85.013 84.798	24.055 23.750	1.00 50.91 1.00 50.20	6 6
ATOM ATOM	7893	CG		570 570	29.480	83.694	26.138	1.00 30.20	6
ATOM	7894	0	PRO C 5		30.207	82.707	26.024	1.00 31.32	8
MOTA	7895	N		571	28.292	83.686	26.736	1.00 31.25	7
MOTA	7896	CA		571	27.708	82.487	27.320	1.00 32.79	6
ATOM	7897	CB		571	27.247	82.729	28.764	1.00 13.87	6
ATOM ATOM	7898 7899	CG CD1		571 571	28.097 28.730	83.181 84.518	29.952 29.670	1.00 13.87 1.00 13.87	6 6
ATOM	7900	CD1		571	27.205	83.294	31.181	1.00 13.87	6
ATOM	7901	C		571	26.469	82.104	26.510	1.00 36.27	6
MOTA	7902	0		571	26.038	82.839	25.613	1.00 35.73	8
ATOM	7903	N		572	25.907	80.947	26.851	1.00 37.31	7
ATOM	7904 7905	CA CB	ILE C S	572 572	24.691 24.666	80.430 78.898	26.233 26.248	1.00 40.16 1.00 48.31	6 6
ATOM ATOM	7905	CG2	ILE C		23.847	78.371	25.105	1.00 48.31	6
ATOM	7907	CG1	ILE C 5		26.078	78.357	26.099	1.00 50.85	6
MOTA	7908	CD1		572	26.167	76.917	26.439	1.00 53.55	6
ATOM	7909	C		572	23.626	80.906	27.206	1.00 42.12	6
ATOM	7910 7911	O	ILE C S	572 573	23.315 23.090	80.207 82.097	28.175 26.952	1.00 44.93 1.00 47.21	8 7
ATOM ATOM	7911	N CA		573 573	22.064	82.732	27.791	1.00 47.21	6
ATOM	7913	CB	ARG C 5		21.563	81.804	28.904	1.00177.52	6
ATOM	7914	CG	ARG C	573	20.346	80.973	28.541	1.00182.92	6
MOTA	7915	CD		573	20.107	79.866	29.558	1.00188.88	6
ATOM	7916 7917	NE CZ		573 573	18.780 18.253	79.269 78.823	29.433 28.295	1.00196.42 1.00201.00	7 6
ATOM ATOM	7917	NH1		573 573	18.936	78.901	27.160	1.00201.00	7
ATOM	7919	NH2		573	17.036	78.293	28.292	1.00203.74	7
MOTA	7920	С		573	22.711	83.940	28.410	1.00 45.92	6
MOTA	7921	0		573	22.941	83.986	29.612	1.00 44.53	8
MOTA	7922 7923	N		574 574	22.990 23.655	84.926 86.123	27.575 28.026	1.00 36.56 1.00 36.57	7 6
ATOM ATOM	7923	CA CB		574 574	24.060	86.932	26.848	1.00 38.37	6
MOTA	7925	C		574	22.884	86.994	29.000	1.00 36.13	6
ATOM	7926	0		574	23.401	87.345	30.057	1.00 37.99	8
ATOM	7927	N		575	21.652	87.350	28.663	1.00 22.89	7
ATOM ATOM	7928 7929	CA CB	GLN C S		20.853 20.633	88.218 87.599	29.535 30.921	1.00 20.60 1.00 41.70	6 6
ATOM	7930	CG	GLN C		20.953	86.125	31.064	1.00 41.79	6
ATOM	7931	CD	GLN C		20.832	85.685	32.491	1.00 41.32	6
MOTA	7932	OE1			21.412	86.300	33.374	1.00 42.31	8
ATOM	7933	NE2		575	20.074	84.627	32.732	1.00 40.07	7
ATOM ATOM	793 <u>4</u> 7935	C O	GLN C S		21.542 22.702	89.557 89.609	29.756 30.144	1.00 19.44 1.00 19.35	6 8
ATOM	7936	N	ALA C		20.836	90.648	29.514	1.00 19.52	7
MOTA	7937	CA	ALA C		21.432	91.947	29.749	1.00 19.48	6
MOTA	7938	· CB		576	20.508	93.042	29.267	1.00 59.31	6
MOTA	7939	C		576 576	21.554	92.006	31.252	1.00 19.91	6 9
ATOM ATOM	7940 7941	O N	ALA C S		21.283 22.007	91.029 93.128	31.937 31.791	1.00 19.51 1.00 59.79	8 7
ATOM	7942	CD	PRO C S		22.962	94.057	31.168	1.00 54.76	6
ATOM	7943	CA	PRO C		22.100	93.167	33.255	1.00 61.36	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	7944 7944 79445 79446 79446 7947 7948 7995 7995 7995 7995 7995 7995 7995 799	CB CG C O N CA CBG1 CC O N CA CBG1 CC C O N CA CBG1 CC C O N CA CC CC C O N CA CC	LEU C 583 LEU C 583 LEU C 584 GLU C 584 GLU C 584 GLU C 584 GLU C 584	26.118 24.499 24.790 24.164 24.166 23.655 24.063 23.532 22.324	101.267 101.137 100.244 98.870 97.992 98.634 97.953 97.628	33.493 32.323 33.827 33.827 33.827 33.827 33.827 33.953 35.946 37.368 36.553 36.408 36.557 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.866 38.8267 37.8669 37.866	1.00 55.62 1.00 56.36 1.00 62.40 1.00 62.98 1.00 42.71 1.00 41.26 1.00 30.71 1.00 30.48 1.00 29.50 1.00 40.82 1.00 41.24 1.00 29.07 1.00 28.65 1.00 24.77 1.00 24.40 1.00 26.25 1.00 28.84 1.00 29.03 1.00 40.57 1.00 40.57 1.00 40.57 1.00 42.09 1.00 42.42 1.00 38.01 1.00 38.73 1.00 40.20 1.00 40.63 1.00 23.18 1.00 22.74 1.00 33.18 1.00 22.74 1.00 61.60 1.00 61.60 1.00 61.97 1.00 40.63 1.00 23.31 1.00 40.22 1.00 41.67 1.00 61.44 1.00 61.60 1.00 61.97 1.00 33.10 1.00 29.69 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 29.36 1.00 29.36 1.00 29.36 1.00 29.00 1.00 32.86 1.00 35.09 1.00 21.12 1.00 20.91 1.00 20.91 1.00 20.71	666876668766668766687668766876687668766
ATOM ATOM ATOM	7991 7992 7993	CB CG CD	GLU C 584 GLU C 584 GLU C 584 GLU C 584	23.655 24.063 23.532	97.992 98.634 97.953	27.584 28.854 30.050	1.00 21.12 1.00 20.91 1.00 21.97	6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8000 8001 8002 8003 8004 8005 8006 8007 80010 80112 80113 80113 80115 80117 80119 80111 80119 80111 80119 80111 80119 80111 8011 8011 8011 80111 80111 80111 80111 80111 80111 8011 8011 8011 8011 80111 801	CB CCD 12 CB CCD OE2 CD OE2 CD OE2 CD OE2 CD OE2 CD OE2 CD OEC CD	GLU C 585 GLU C 585 GLU C 585 ARG C 586 ARG C 587 VAL C 588 VAL C 589 ARG C 589	27.608	100.353 101.375 102.594 100.956 99.842 99.937 100.544 102.691 104.173 104.814 105.691 104.751 105.694 99.3895 99.274 99.274 99.3895 99.274 99.3895 99.3895 99.3895 97.568 97.568 97.308 97.568 97.308 99.308 97.308	24.024 25.382 25.507 25.505 22.659 21.561 22.7860 21.7861 22.7862 21.7862 21.6619 20.629 19.629 19.6361 21.557 22.584 23.991 21.2654 23.993 24.826 21.788	1.00 85.92 1.00 89.81 1.00 92.09 1.00 94.24 1.00 93.62 1.00 58.83 1.00 58.39 1.00 62.56 1.00 63.44 1.00 43.28 1.00 45.77 1.00 49.63 1.00 54.25 1.00 57.52 1.00 58.30 1.00 59.21 1.00 64.38 1.00 65.33 1.00 33.31 1.00 33.17 1.00 26.75 1.00 26.75 1.00 43.57 1.00 42.64 1.00 42.85 1.00 45.37 1.00 42.64 1.00 42.85 1.00 45.43 1.00 47.23 1.00 49.80 1.00 47.23 1.00 49.80 1.00 27.95 1.00 49.80 1.00 27.95 1.00 49.80 1.00 27.95 1.00 49.80 1.00 27.95 1.00 86.48 1.00 88.53 1.00 90.71 1.00 90.22 1.00 92.10 1.00 26.89 1.00 56.02 1.00 56.65 1.00 44.75 1.00 44.37	666886876667677687666668766687666676776876666
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8043 8044 8045 8046 8047 8048 8049 8050 8051 8052 8053	N CA CB CG OD1 OD2 C O N CA CB	ASP C 590 ASP C 591 SER C 591 SER C 591	27.249 28.183 28.612 27.608 27.206 27.221 29.341 30.247 29.245 30.215 30.044	99.139 99.930 101.177 102.311 102.624 102.896 98.947 99.150 97.846 96.760 95.898	17.662 16.888 17.658 17.526 16.389 18.552 16.689 15.876 17.428 17.403 18.651	1.00 56.02 1.00 56.65 1.00 44.75 1.00 44.16 1.00 43.91 1.00 57.18 1.00 58.77 1.00 57.47 1.00 55.46 1.00 35.19	7 6 6 6 8 8 6 8 7 6 6
ATOM ATOM	8054 8055	OG C	SER C 591 SER C 591	28.749 29.982	95.324 95.893	18.702 16.182	1.00 33.80 1.00 54.43	8 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8168 8169 8170 8171 8172 8173 8174 8175 8177 8177 8178 8189 8181 8183 8184 8185 8189 8199 8199 8199 8200 8201 8202 8203 8211 8215 8216 8217 8218 8218 8218 8218 8218 8218 8218		ASP C 607 ASP C 607 ASP C 607 ASP C 608 GLY C 608 GLY C 608 GLY C 609 THR C 609 THR C 609 THR C 609 THR C 610 ALA C 610 ALA C 611 ILE C 611 ALA C 612 ALA C 612 ALA C 612 ALA C 612 ALA C 613 VAL C 613 ARG C 614 ARG C 615 ALA C 615 ALA C 615	13.51 14.26 16.38 16.48 17.32 18.52 19.85 20.52 21.83 22.68 22.31 22.74 20.66 20.59 19.15 17.71 16.86 17.88 18.40 16.41 15.66 14.47 16.50 14.39 14.77 17.85 18.69 14.77 17.85 18.69 14.77 17.85 18.69 14.77 17.85 18.69 14.77 17.85 18.69 14.77 17.85 18.69 14.77 17.85 18.69 14.77 13.88 18.18 19.36 18.18 19.36 18.18 19.36 18.18 19.36 18.18 19.36 18.18 19.36 18.18 19.36	2 81.866 4 81.142 79.547 78.641 79.8167 79.8167 79.714 79.714 79.855 79.855 79.855 79.855 81.485 81.485 83.888 83.721 84.993 83.883 85.644 85.644 87.998 86.819 87.998 86.819 88.8907 86.819 88.8907 88.8909 88.8909 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 88.188 89.099 894.319 80.899 894.319 80.999 894.829 80.999 894.829 80.999 894.829 80.999 894.839 <	4.230 3.839 3.455 2.035 1.505 1.136 4.336 5.260 3.999 4.618 5.297 4.519 5.340 4.666 5.272 6.573 4.581 3.809 2.896 1.677 1.730	1.00112.69 1.00113.97 1.00 66.66 1.00 65.25 1.00 64.64 1.00 63.93 1.00 64.57 1.00 65.21 1.00 65.16 1.00115.71 1.00117.13 1.00 94.59 1.00 94.60 1.00126.60	688687668766866876668766666876668766668766687666767768766
ATOM	8223	C	ALA C 615	10.94			1.00 94.78	6

ATOM	8224	0	ALA C	615	10.038	93.243	0.355	1.00 95.34	8
ATOM	8225	\mathbf{N}	ALA C	616	11.575	94.216	1.669	1.00105.19	7
ATOM	8226	CA	ALA C	616	11.209	95.562	1.227	1.00103.90	6
MOTA	8227	CB	ALA C	616	11.425	96.566	2.354	1.00115.14	6
MOTA	8228	С	ALA C	616	12.055	95.942	0.016	1.00103.39	6
ATOM	8229	Ο	ALA C	616	13.279	96.033	0.113	1.00103.74	8
MOTA	8230	N	ALA C	617	11.394	96.154	-1.122	1.00152.23	7
ATOM	8231	CA	ALA C		12.063	96.517	-2.375	1.00150.98	6
ATOM	8232	CB	ALA C		12.968	97.740	-2.159	1.00105.32	6
ATOM	8233	С	ALA C		12.871	95.345	-2.949	1.00149.51	6
ATOM	8234	0		617	12.300	94.397	-3.490	1.00150.02	8
MOTA	8235	N	GLY C		14.195	95.418	-2.840	1.00105.94	7
ATOM	8236	CA		618	15.042	94.352	-3.348	1.00103.81	6
ATOM	8237	C		618	15.018	93.170	-2.401	1.00102.70	6
ATOM	8238	0	GLY C		14.029	92.962	-1.701	1.00103.42	8
ATOM	8239	N		619	16.094	92.390	-2.368	1.00105.88	7
ATOM	8240	CA		619	16.151	91.238	-1.470	1.00103.75	6
ATOM	8241 8242	CB	ARG C	619	15.511 14.646	90.017 89.240	-2.137	1.00 80.95 1.00 82.19	6 6
ATOM ATOM	8243	CG CD		619	14.046	87.878	-1.196 -1.705	1.00 82.19	6
ATOM	8244	NE		619	14.235	86.920	-0.604	1.00 84.96	7
ATOM	8245	CZ	ARG C		13.425	85.865	-0.543	1.00 84.30	6
ATOM	8246	NH1		619	12.562	85.614	-1.521	1.00 88.12	7
ATOM	8247	NH2	ARG C	619	13.494	85.040	0.494	1.00 88.66	7
ATOM	8248	C	ARG C		17.592	90.916	-1.052	1.00102.23	6
ATOM	8249	0		619	18.514	91.018	-1.865	1.00103.00	8
ATOM	8250	N	ALA C	620	17.792	90.529	0.209	1.00 46.28	7
ATOM	8251	CA	ALA C	620	19.137	90.224	0.683	1.00 43.89	6
ATOM	8252	CB		620	19.802	91.498	1.151	1.00 55.43	6
MOTA	8253	С		620	19.216	89.184	1.781	1.00 42.30	6
MOTA	8254	0	ALA C		19.118	89.516	2.947	1.00 41.57	8
ATOM	8255	N		621	19.402	87.925	1.409	1.00 53.94	7
ATOM	8256	CA	VAL C	621 621	19.525 19.751	86.843 85.469	2.388	1.00 52.46 1.00104.37	6 6
ATOM ATOM	8257 8258	CB CG1		621	20.054	84.389	1.685 2.714	1.00104.37	6
ATOM	8259	CG1	VAL C		18.521	85.086	0.877	1.00103.44	6
ATOM	8260	C		621	20.730	87.155	3.284	1.00 51.08	6
ATOM	8261	Õ		621	21.841	87.383	2.799	1.00 51.01	8
ATOM	8262	N	HIS C		20.511	87.165	4.590	1.00 53.04	7
ATOM	8263	CA		623	21.586	87.472	5.514	1.00 51.62	6
ATOM	8264	CB	HIS C	623	21.097	88.456	6.565	1.00 49.20	6
ATOM	8265	CG	HIS C		21.163	89.879	6.125	1.00 48.97	6
MOTA	8266		HIS C		21.846	90.468	5.117	1.00 48.83	6
MOTA	8267		HIS C		20.476	90.888	6.765	1.00 49.45	7
ATOM	8268		HIS C		20.731	92.037	6.169	1.00 49.14	6
ATOM	8269	NE2			21.560	91.809	5.166	1.00 49.93	7
ATOM	8270	C	HIS C		22.218	86.280	6.208	1.00 51.02	6
ATOM	8271	O N	HIS C		21.585	85.619	7.036	1.00 50.48	8
ATOM ATOM	8272 8273	N CD	PRO C		23.490 24.227	85.994 86.607	5.874 4.753	1.00 47.27 1.00 73.09	7 6
ATOM	8273	CA	PRO C		24.227	84.885	6.452	1.00 73.09	6
ATOM	8275	CB	PRO C		25.545	84.888	5.636	1.00 72.75	6
ATOM	8276	CG	PRO C		25.126	85.476	4.313	1.00 72.76	6
ATOM	8277	C	PRO C		24.510	85.230	7.896	1.00 47.63	6
MOTA	8278	0	PRO C	624	24.880	86.353	8.201	1.00 47.78	8
MOTA	8279	N	LEU C	625	24.313	84.285	8.796	1.00 61.90	7

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MOTA	8336	0	ARG C	630	36.295	83.549	15.974	1.00 27.83	8
MOTA	8337	N	SER C		36.981	82.719	17.943	1.00 75.23	7
MOTA	8338	CA	SER C	631	37.426	84.034	18.402	1.00 77.41	6
MOTA	8339	CB	SER C	631	36.795	84.345	19.750	1.00102.85	6
ATOM	8340	ŌĠ	SER C	631	35.385	84.196	19.684	1.00104.52	8
ATOM	8341	C	SER C		38.932	84.156	18.515	1.00 78.51	6
MOTA	8342	0			39.631	83.163	18.662	1.00 79.56	8
MOTA	8343	N	ASN C		39.430	85.382	18.434	1.00 67.55	7
ATOM	8344	CA	ASN C	632	40.862	85.613	18.541	1.00 68.58	6
MOTA	8345	CB	ASN C	632	41.176	87.101	18.501	1.00 55.31	6
ATOM	8346	CG	ASN C	632	41.131	87.653	17.115	1.00 55.62	6
ATOM	8347	OD1			42.019	87.403	16.312	1.00 51.87	8
ATOM	8348	ND2			40.084	88.395	16.812	1.00 57.62	7
ATOM	8349	C	ASN C		41.287	85.055	19.865	1.00 69.32	6
MOTA	8350	0	ASN C		42.328	84.418	19.982	1.00 70.85	8
MOTA	8351	N	GLN C		40.461	85.330	20.849	1.00 37.41	7
ATOM	8352	CA	GLN C	633	40.687	84.815	22.193	1.00 38.28	6
MOTA	8353	CB	GLN C	633	40.022	85.718	23.232	1.00166.95	6
ATOM	8354	CG	GLN C	633	39.552	87.056	22.683	1.00169.97	6
MOTA	8355	CD	GLN C		40.598	87.729	21.818	1.00172.13	6
MOTA	8356	OE1		633	40.302	88.683	21.010	1.00172.13	8
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ATOM	8357	NE2	GLN C		41.881	87.397	21.731	1.00174.33	
MOTA	8358	С			40.177	83.384	22.327	1.00 38.17	6
MOTA	8359	0	GLN C	633	40.321	82.752	23.334	1.00 39.26	8
MOTA	8360	N	GLY C		39.583	82.897	21.232	1.00 74.61	7
ATOM	8361	CA	GLY C	634	39.065	81.542	21.268	1.00 74.34	6
MOTA	8362	С	GLY C	634	37.733	81.524	21.979	1.00 74.02	6
ATOM	8363	0	GLY C		37.279	80.497	22.474	1.00 74.35	8
ATOM	8364	Ň	THR C		37.107	82.691	22.020	1.00 78.24	7
ATOM	8365	CA	THR C	635	35.822	82.864	22.664	1.00 78.54	6
				635	35.444	84.367	22.724	1.00104.98	6
ATOM	8366	CB	THR C						
MOTA	8367	OG1			35.430	84.788	24.091	1.00107.03	8
MOTA	8368	CG2	THR C	635	34.080	84.636	22.093	1.00105.64	6
ATOM	8369	С	THR C		34.706	82.069	22.005	1.00 78.33	6
MOTA	8370	0	THR C		34.102	81.231	22.663	1.00 80.40	8
MOTA	8371	N	ALA C	636	34.443	82.320	20.721	1.00 25.53	7
MOTA	8372	CA	ALA C	636	33.374	81.644	19.986	1.00 23.68	6
MOTA	8373	CB	ALA C		33.003	80.308	20.642	1.00 52.56	6
MOTA	8374	C	ALA C		32.129	82.514	19.886	1.00 23.17	6
ATOM	8375	Ö	ALA C		31.054	82.152	20.367	1.00 21.83	8
MOTA	8376	N	PHE C		32.274	83.667	19.254	1.00 20.92	7
				637		84.576	19.234		6
ATOM	8377	CA	PHE C		31.150				
MOTA	8378	CB	PHE C		31.671	85.973	18.703	1.00 76.68	6
MOTA	8379	CG	PHE C		31.455	86.331	17.268	1.00 76.26	6
MOTA	8380	CD1		637	30.307	86.993	16.877	1.00 76.05	6
ATOM	8381	CD2	PHE C	637	32.365	85.950	16.298	1.00 76.17	6
MOTA	8382	CE1	PHE C	637	30.065	87.268	15.541	1.00 74.70	6
ATOM	8383	CE2	PHE C	637	32.128	86.221	14.963	1.00 75.81	6
ATOM	8384	CZ	PHE C		30.974	86.880	14.586	1.00 74.99	6
ATOM	8385	C	PHE C		30.256	84.026	17.964	1.00 20.74	6
	8386				30.250	83.636	16.902	1.00 20.74	8
ATOM		O	PHE C						7
ATOM	8387	N	ALA C		28.944	83.994	18.223	1.00 75.28	
MOTA	8388	CA			27.937	83.501	17.267	1.00 77.77	6
MOTA	8389	CB	ALA C		27.460	82.101	17.667	1.00 78.00	6
MOTA	8390	С	ALA C		26.736	84.452	17.159	1.00 78.88	6
ATOM	8391	0	ALA C	638	26.675	85.460	17.868	1.00 78.96	8

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ATOM 8444 NH1 ARG C 644 5.593 79.668 13.322 1.00208.87 7 ATOM 8445 NH2 ARG C 644 7.139 78.561 14.598 1.00208.87 7 ATOM 8446 C ARG C 644 8.692 85.742 10.422 1.00 73.10 6
ATOM 8446 C ARG C 644 8.692 85.742 10.422 1.00 73.10 6 ATOM 8447 O ARG C 644 9.176 85.667 9.287 1.00 72.87 8

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ATOM 8449 CA VAL C 645	ATOM	8448	N	VAL C	645	7.683	86.552	10.734	1.00127.85	7
ATOM 8451 CG1 VAL C 645 5.737 86.859 9.258 1.00109.79 6 ATOM 8452 CG2 VAL C 645 5.966 85.463 8.703 1.00109.80 6 ATOM 8453 C VAL C 645 5.966 85.463 8.703 1.00109.41 6 ATOM 8453 C VAL C 645 5.966 85.463 8.703 1.00109.41 6 ATOM 8454 O VAL C 645 5.764 88.988 11.072 1.00128.91.8 8 ATOM 8455 N GLY C 646 7.645 89.782 10.078 1.0094.53 7 ATOM 8456 CA GLY C 646 7.645 89.782 10.078 1.0094.93 6 ATOM 8457 C GLY C 646 7.645 89.782 10.078 1.0094.93 6 ATOM 8458 O GLY C 646 7.932 92.247 9.738 1.0095.18 8 ATOM 8458 O GLY C 646 8.204 92.038 8.553 1.00 95.18 8 ATOM 8459 N ALA C 647 8.461 94.615 9.554 1.00 88.98 6 ATOM 8460 CA ALA C 647 8.461 94.615 9.554 1.00 88.98 6 ATOM 8461 CB ALA C 647 9.851 95.141 9.906 1.00 89.28 6 ATOM 8462 C ALA C 647 9.851 95.141 9.906 1.00 89.28 6 ATOM 8465 CA BARC C 648 11.267 97.029 10.359 1.00 90.9 6 ATOM 8465 CB ARG C 648 11.267 97.029 10.359 1.00 90.9 6 ATOM 8466 CB ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8467 CG ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8468 CD ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8468 CD ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8468 CD ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8468 CD ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8468 CD ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8467 CG ARG C 648 11.365 98.462 9.853 1.00 95.96 6 ATOM 8470 NL ARG C 648 11.365 99.00 10.169 1.00 95.96 6 ATOM 8471 NH1 ARG C 648 11.859 100.324 9.347 1.00 96.24 7 ATOM 8470 ALA C 669 11.40 97.552 14.09 91.00 91.	-									
ATOM 8451 CG1 VAL C 645 5.129 87.777 8.208 1.00109.80 6 ATOM 8452 CG2 VAL C 645 5.566 85.463 8.703 1.00109.41 6 ATOM 8453 C VAL C 645 5.764 88.988 11.072 1.00129.18 8 ATOM 8455 N GLY C 646 7.645 89.782 10.078 1.00129.18 8 ATOM 8455 N GLY C 646 7.461 91.115 10.630 1.00129.18 8 ATOM 8456 CA GLY C 646 7.461 91.115 10.630 1.00 94.58 7 ATOM 8457 C GLY C 646 7.202 92.247 9.738 1.00 95.18 6 ATOM 8459 N ALA C 647 8.401 92.038 8.553 1.009 95.18 6 ATOM 8459 N ALA C 647 8.401 92.038 8.553 1.00 95.22 8 ATOM 8459 N ALA C 647 8.401 93.445 10.311 1.00 89.09 7 ATOM 8460 CA ALA C 647 7.434 95.716 9.711 1.00122.12 6 ATOM 8461 CB ALA C 647 7.845 94.377 10.027 1.00 89.28 6 ATOM 8461 CB ALA C 647 7.845 95.141 9.906 1.00 89.28 6 ATOM 8464 N ARC C 648 9.969 96.455 10.066 1.00 89.28 6 ATOM 8465 CA ARC C 648 11.267 97.029 10.359 1.00 90.09 9.00 9 ATOM 8466 CB ARC C 648 11.267 97.029 10.359 1.00 90.09 9.00 9 ATOM 8467 CG ARC C 648 11.365 98.462 9.953 1.00 95.01 6 ATOM 8468 CD ARC C 648 11.365 98.462 9.953 1.00 95.01 6 ATOM 8468 CD ARC C 648 11.365 98.462 9.953 1.00 95.96 6 ATOM 8467 CC ARC C 648 11.315 100.324 9.347 1.00 97.09 6.24 7 ATOM 8470 CZ ARC C 648 11.355 98.49 9.992 1.00 90.99 95.91 6 ATOM 8468 CD ARC C 648 11.355 98.49 9.992 1.00 90.99 95.91 6 ATOM 8470 CZ ARC C 648 11.365 98.49 9.992 1.00 90.99 96.91 6 ATOM 8470 CZ ARC C 648 11.365 98.49 9.391 1.00 90.09 9.09 90.09 9										
ATOM 8453 C C92 VAL C 645										
ATOM 8453 C VAL C 645 5.779 88.813 10.365 1.00128.82 6 ATOM 8454 O VAL C 645 5.784 88.988 11.072 1.00129.18 8 ATOM 8455 N GLY C 646 7.645 89.782 10.078 1.00 94.58 7 ATOM 8456 CA GLY C 646 7.461 91.115 10.630 1.00 94.93 6 ATOM 8457 C GAGLY C 646 7.922 92.247 9.738 1.00 95.18 6 ATOM 8458 O GLY C 646 8.204 92.038 8.553 1.00 95.22 8 ATOM 8459 N ALA C 647 8.461 94.615 9.554 1.00 89.09 7 ATOM 8460 CA ALA C 647 7.434 95.716 9.551 1.00 89.09 7 ATOM 8461 CB ALA C 647 9.851 95.141 9.906 1.00 89.28 6 ATOM 8463 O ALA C 647 9.851 95.141 9.906 1.00 89.28 6 ATOM 8463 O ALA C 648 9.969 96.455 10.026 1.00 89.53 7 ATOM 8465 CA ARG C 648 11.267 97.029 10.359 1.00 90.99 6 ATOM 8466 CB ARG C 648 11.267 97.029 10.359 1.00 90.99 6 ATOM 8467 CG ARG C 648 11.365 98.642 98.33 1.00 95.01 6 ATOM 8468 CD ARG C 648 11.365 98.642 98.33 1.00 95.01 6 ATOM 8469 NE ARG C 648 11.365 98.642 98.33 1.00 95.01 6 ATOM 8469 NE ARG C 648 13.131 100.253 9.425 1.00 95.01 6 ATOM 8470 NH ARG C 648 11.365 98.642 9.835 1.00 95.01 6 ATOM 8471 NH1 ARG C 648 11.859 100.324 9.347 1.00 90.59 6 ATOM 8472 NH2 ARG C 648 11.385 98.642 9.835 1.00 95.01 6 ATOM 8473 C ARG C 648 11.385 98.09 99.437 1.00 90.59 6 ATOM 8474 O ALA C 649 11.01 97.512 10.029 10.00 90.99 7.70 6 ATOM 8473 C ARG C 648 11.381 100.125 9.425 1.00 95.74 6 ATOM 8473 C ARG C 648 11.381 100.125 9.425 1.00 95.74 6 ATOM 8473 C ARG C 648 11.383 99.008 10.169 1.00 90.53 6 ATOM 8474 O ALA C 649 11.01 97.552 14.099 1.00 90.53 6 ATOM 8478 C ALA C 669 11.02 97.559 1.00 90.53 1.00 90.53 6 ATOM 8478 C ALA C 669 11.01 97.552 14.099 1.00 90.51 1.00 90.53 6 ATOM 8478 C ALA C 669 11.01 97.552 14.099 1.00 90.51 1.00 90.53 6 ATOM 8480 C ALA C 669 10.929 97.535 1.700 1.00 90.51 1.00 90.53 6 ATOM 8481 CA ALA C 6650 11.183 97.551 1.00 90.53 1.00 90.53 6 ATOM 8481 CA ALA C 6651 11.928 99.803 19.812 1.00185.02 6 ATOM 8482 C B ALA C 6651 11.934 99.255 11.933 1.00155.18 6 ATOM 8483 C ALA C 6651 11.934 99.255 11.933 1.00155.18 6 ATOM 8483 C A ALA C 6651 11.934 99.255 1.930 1.00155.18 6 ATOM 8490 N ALA C 6651 11.934 99.255 11.93										
ATOM 8455 N CLY C 646										
ATOM 8455 N GLY C 646 7.645 89.782 10.078 1.00 94.58 7 ATOM 8456 CA GLY C 646 7.461 91.115 10.630 1.00 94.93 6 ATOM 8458 O GLY C 646 7.932 92.247 9.738 1.00 95.18 6 ATOM 8459 N ALA C 647 8.040 93.445 10.311 1.00 89.09 7 ATOM 8460 CA ALA C 647 8.461 94.615 9.554 1.00 88.98 6 ATOM 8461 CB ALA C 647 8.461 94.615 9.554 1.00 88.98 6 ATOM 8462 C ALA C 647 7.434 95.716 9.711 1.00122.12 6 ATOM 8463 O ALA C 647 9.851 95.141 9.906 1.00 89.28 6 ATOM 8464 N ARG C 648 9.969 96.453 10.066 1.00 89.28 6 ATOM 8465 CA ARG C 648 11.267 97.029 10.359 1.00 90.99 7 ATOM 8466 CB ARG C 648 11.267 97.029 10.359 1.00 90.99 6 ATOM 8468 CD ARG C 648 12.733 99.008 10.169 1.00 95.74 6 ATOM 8468 CD ARG C 648 13.13 100.253 9.425 1.00 95.74 6 ATOM 8469 NE ARG C 648 15.381 100.194 10.391 1.00 97.70 6 ATOM 8471 NH1 ARG C 648 15.381 100.194 10.391 1.00 98.66 7 ATOM 8472 NH2 ARG C 648 16.692 100.245 10.222 1.00 98.84 7 ATOM 8473 C ARG C 648 11.859 97.555 10.222 1.00 98.84 7 ATOM 8477 NH1 ARG C 648 16.692 100.245 10.222 1.00 98.84 7 ATOM 8473 C ARG C 648 12.850 96.549 12.076 1.00 98.053 7 ATOM 8477 N ALA C 649 10.950 97.555 12.720 1.00185.27 7 ATOM 8477 C ARG C 648 12.850 97.555 12.720 1.00185.27 7 ATOM 8477 C ARG C 648 11.839 97.555 12.720 1.00185.27 7 ATOM 8478 C ALA C 649 10.950 97.555 12.720 1.00185.27 7 ATOM 8477 C ALA C 649 10.950 97.555 12.720 1.00185.27 7 ATOM 8478 C ALA C 649 10.929 97.575 12.720 1.00185.27 7 ATOM 8478 C ALA C 650 9.834 97.581 17.549 1.00155.18 6 ATOM 8478 C ALA C 650 10.744 97.991 18.699 1.00155.02 6 ATOM 8480 N ALA C 650 10.744 97.991 18.699 1.00155.02 6 ATOM 8481 C ALA C 650 11.183 97.151 19.484 1.00153.68 8 ATOM 8482 C B ALA C 651 11.928 99.803 19.812 1.00195.33 6 ATOM 8483 C ALA C 650 11.183 97.151 19.484 1.00153.68 8 ATOM 8484 C ALA C 650 11.183 97.151 19.484 1.00153.68 8 ATOM 8489 N ALA C 652 11.474 99.255 11.501 1.00195.33 6 ATOM 8489 C ALA C 651 11.928 99.803 19.812 1.00195.02 6 ATOM 8489 C ALA C 651 11.928 99.803 19.812 1.00195.02 6 ATOM 8499 O ALA C 652 14.741 98.227 17.818 1.00155.26 8 ATOM 8499 O ALA C 652 14.										
ATOM 8458 O GLY C 646		8455	N	GLY C	646	7.645	89.782	10.078	1.00 94.58	7
ATOM 8458 O GLY C 646	MOTA	8456	CA	GLY C	646	7.461	91.115	10.630	1.00 94.93	6
ATOM 8469 N ALA C 647 8.040 93.445 10.311 1.00 89.09 7 ATOM 8461 CB ALA C 647 7.434 95.716 9.711 1.00122.12 6 ATOM 8462 C ALA C 647 9.851 95.141 9.906 1.00 89.28 6 ATOM 8463 O ALA C 647 9.851 95.141 9.906 1.00 89.28 6 ATOM 8464 N ARG C 648 9.969 96.453 10.066 1.00 89.53 7 ATOM 8465 CA ARG C 648 11.267 97.029 10.359 1.00 90.09 6 ATOM 8466 CB ARG C 648 11.365 98.462 9.853 1.00 95.01 6 ATOM 8466 CB ARG C 648 11.365 98.462 9.853 1.00 95.01 6 ATOM 8466 CB ARG C 648 11.365 98.462 9.853 1.00 95.01 6 ATOM 8468 CD ARG C 648 11.365 98.462 9.853 1.00 95.01 6 ATOM 8469 NE ARG C 648 11.365 98.462 9.853 1.00 95.74 6 ATOM 8469 NE ARG C 648 11.365 98.462 9.853 1.00 96.24 7 ATOM 8470 NH ARG C 648 14.569 100.324 9.347 1.00 96.24 7 ATOM 8471 NH1 ARG C 648 14.885 99.992 11.603 1.00 98.66 7 ATOM 8472 NH2 ARG C 648 11.747 97.013 11.798 1.00 90.84 8 ATOM 8473 C ARG C 648 11.747 97.013 11.798 1.00 90.84 8 ATOM 8475 N ALA C 649 10.950 97.535 12.720 1.00185.27 7 ATOM 8476 CA ALA C 649 10.950 97.535 12.720 1.00185.27 7 ATOM 8477 CB ALA C 649 10.292 97.598 15.132 1.00185.27 7 ATOM 8478 C ALA C 649 10.292 97.598 15.132 1.00185.27 7 ATOM 8480 N ALA C 650 10.714 97.552 14.309 1.00185.25 7 ATOM 8481 CA ALA C 650 10.714 97.552 14.309 1.00185.25 7 ATOM 8488 C ALA C 650 9.242 96.201 17.806 1.00185.25 7 ATOM 8488 C ALA C 650 10.714 97.552 14.309 1.00155.11 7 ATOM 8488 C ALA C 650 10.714 97.592 14.309 1.00155.13 6 ATOM 8488 C ALA C 650 10.714 97.592 14.309 1.00155.13 6 ATOM 8488 C ALA C 650 10.714 97.592 14.309 1.00155.13 6 ATOM 8488 C ALA C 650 10.714 97.592 14.309 1.00155.13 6 ATOM 8488 C ALA C 651 11.034 99.285 18.784 1.00195.36 8 ATOM 8489 O ALA C 650 11.183 99.255 19.501 1.00195.36 8 ATOM 8480 C ALA C 651 11.034 99.285 18.784 1.00195.36 8 ATOM 8480 C ALA C 651 11.034 99.285 18.784 1.00197.30 6 ATOM 8491 CA GLY C 652 13.796 96.341 16.623 1.00145.76 6 ATOM 8492 C GLY C 652 13.796 96.341 16.623 1.00145.76 6 ATOM 8493 O GLY C 652 13.796 96.341 16.623 1.00145.76 6 ATOM 8499 OD ASP C 653 15.264 97.304 16.623 1.00145.73 6 ATOM 8499 OD ASP C 653 15.2	ATOM	8457	С	GLY C	646	7.932	92.247	9.738	1.00 95.18	
ATOM 8461 CB ALA C 647 7.434 95.716 9.554 1.00 88.98 6 ATOM 8462 C ALA C 647 7.434 95.716 9.711 1.00122.12 6 ATOM 8463 O ALA C 647 10.805 94.377 10.027 1.00 88.28 6 ATOM 8463 N ARG C 648 9.969 96.453 1.066 1.00 89.53 7 ATOM 8465 CA ARG C 648 11.267 97.029 10.359 1.00 90.09 6 ATOM 8466 CB ARG C 648 11.365 98.462 9.853 1.00 90.09 6 ATOM 8466 CB ARG C 648 11.365 98.462 9.853 1.00 95.01 6 ATOM 8468 CD ARG C 648 13.113 100.253 9.425 1.00 95.96 6 ATOM 8469 NE ARG C 648 13.113 100.253 9.425 1.00 95.74 6 ATOM 8469 NE ARG C 648 13.113 100.253 9.425 1.00 96.24 7 ATOM 8470 CZ ARG C 648 14.865 90.929 11.603 1.00 90.97.70 6 ATOM 8471 NH1 ARG C 648 16.692 100.245 10.391 1.00 90.53 6 ATOM 8472 NH2 ARG C 648 11.747 97.013 11.798 1.00 90.53 6 ATOM 8473 C ARG C 648 11.747 97.013 11.798 1.00 90.53 6 ATOM 8474 O ARG C 648 12.850 96.549 12.076 1.00 98.84 8 ATOM 8475 N ALA C 649 11.950 97.535 12.720 1.00185.25 6 ATOM 8477 CB ALA C 649 11.401 97.552 14.099 1.00185.25 6 ATOM 8478 C ALA C 649 11.401 97.552 14.099 1.00185.25 6 ATOM 8478 C ALA C 649 10.292 97.558 15.132 1.00185.02 6 ATOM 8480 N ALA C 650 10.714 97.521 14.805 1.00185.02 6 ATOM 8481 CA ALA C 650 10.714 97.522 14.099 1.00185.25 6 ATOM 8482 CB ALA C 650 10.714 97.522 11.00185.02 6 ATOM 8483 C ALA C 650 10.714 97.522 11.00185.02 6 ATOM 8484 O ALA C 650 10.744 97.952 14.805 1.00185.00 8 ATOM 8485 N ALA C 650 10.744 97.952 14.805 1.00185.00 8 ATOM 8486 CA ALA C 651 11.83 97.551 17.549 1.00155.18 6 ATOM 8487 CB ALA C 651 11.470 99.352 21.193 1.00155.18 6 ATOM 8488 C ALA C 651 11.470 99.352 21.193 1.00177.13 8 ATOM 8489 C ALA C 651 11.470 99.352 21.193 1.00179.30 6 ATOM 8490 N GLY C 652 13.476 98.778 18.269 1.00154.07 6 ATOM 8491 CA GLY C 652 13.476 99.263 20.346 1.00197.13 8 ATOM 8492 C GLY C 652 13.476 99.778 14.515 1.00197.30 6 ATOM 8493 C G ALA C 651 11.474 99.265 19.501 1.00199.30 6 ATOM 8494 N ASP C 653 15.264 97.600 15.523 1.00149.73 6 ATOM 8495 CA ASP C 653 15.266 97.304 16.623 1.00149.73 6 ATOM 8499 OZ ASP C 653 15.266 97.304 16.523 1.00149.73 6 ATOM 8499 OZ ASP C 653 15	ATOM	8458	0	GLY C	646	8.204	92.038			
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ATOM ATOM ATOM	8557 8558 8559	CD OE1 OE2		562	18.369 17.677 18.733	88.542 88.087 87.852	27.318 28.258 26.343	1.00 53.96 1.00 54.83 1.00 53.54	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	888888888888888888888888888888888888	NE2 C O N CAB CG1	GLN C 670 GLN C 671 ASN C 672 VAL C 672 VAL C 672 VAL C 673 LEU C 673 ALA C 673		24.560 22.587 24.587 25.033 22.739 21.9716 20.863 20.8951 21.5369 21.632 21.633 21.633 21.634 22.3.569 21.634 21.634 22.180 23.24.458 24.699 24.699 24.699 25.878 26.833 27.244 28.858	82.000 82.483 86.728 789.454 89.458 89.458 89.458 89.512 89.458 89.512 89.458 89.512 89.458 89.512 89.458 89.512 89.458 89.512 8	32.824 31.850 34.810 35.646 35.062 36.394 36.329 35.225 36.713 38.4253 39.314 40.435 39.314 40.928 41.514 42.868 44.377 45.2623 44.572 45.2623 46.4925 47.043 47.954 49.915 49.915 49.915 51.264 51.895 51.264 51.26	1.00 52.07 1.00 53.08 1.00 22.85 1.00 23.26 1.00 32.84 1.00 33.83 1.00 36.11 1.00 37.42 1.00 38.52 1.00 36.92 1.00 32.30 1.00 30.24 1.00 40.81 1.00 40.63 1.00 34.74 1.00 34.74 1.00 34.96 1.00 35.10 1.00 40.17 1.00 41.23 1.00 22.87 1.00 22.87 1.00 22.87 1.00 22.87 1.00 22.05 1.00 34.54 1.00 32.29 1.00 22.87 1.00 21.61 1.00 21.08 1.00 33.54 1.00 33.54 1.00 33.54 1.00 33.54 1.00 33.54 1.00 33.54 1.00 33.54 1.00 33.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87	8768766687686666876666687666687666876668766668766666
ATOM ATOM ATOM	8664 8665 8666	CA CB CG	MET C 67' MET C 67' MET C 67'	7 7 7 7 7 7	27.442 26.183 25.858	86.777 86.042 84.812	54.073 54.536 53.737	1.00 23.84 1.00 21.85 1.00 20.37	6 6 6

ATOM 8725 CD1 PHE C 684 39.368 83.077 54.846 1.00 17.56 6 ATOM 8726 CD2 PHE C 684 40.898 83.407 53.035 1.00 17.56 6	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8673 8673 8673 8674 8675 8677 8677 8677 8687 8687 8688 8688	OD2 C O N CA CB CG CD1 CE1 CD2 CZ OH C O N CA CB CG OD1 ND2 C O N CA CB CG OD1 CCA CB CCB CCB CCB CCB CCB CCB CCB CCB	TYR C 68. ASN C 68.	30.496 31.32 30.26 31.32 30.26 31.32 30.26 31.32 30.56 31.56 329.49 329.49 321.32 321.32 331.33 30.86 31.76 31.14 30.24 30.73 31.15 31.34 31.35 31.36	6 84.658 84.658 84.861 85.287 83.2871 86.883.1269 80.436 879.782 78.807 77.468 77.468 79.493 77.462 79.493 77.3493 79.494 77.3493 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.623 79.634 76.054 74.844 76.051 74.844 76.051 74.843 74.975 75.086 77.308 77.466 78.443 88.77 78.443 88.83.446 83.448 88.3448 83.645 88.3448 83.645 88.3448 83.645 88.3448 83.645 88.3448 83.645 88.3448 83.645 88.3448 83.645 88.3448 83.645	56.251 54.772 56.0355 57.0355 54.740 55.1288 54.2970 53.29977 53.29977 53.29977 53.2997 53.254.0688 54.0688 56.7188 56.6718 56.7884 56.6718 57.8840 56.78840 56.7986 57.8840	1.00 13.87 1.00 53.91 1.00 14.90 1.00 13.87 1.00 56.46 1.00 59.26 1.00 30.38 1.00 29.12 1.00 41.93 1.00 43.64 1.00 44.45 1.00 44.58 1.00 42.72 1.00 43.82 1.00 28.77 1.00 26.45 1.00 66.52 1.00 67.51 1.00 67.51 1.00 67.51 1.00 67.51 1.00 67.51 1.00 44.60 1.00 44.37 1.00 44.60 1.00 44.37 1.00 44.60 1.00 27.30 1.00 27.30 1.00 24.29 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 18.87 1.00 19.81 1.00 19.81 1.00 19.81 1.00 19.81 1.00 19.81 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87	6666687666666687666886876687666666686876687666
WIOM 0/7/ CET LUE C 004 40.000 00.407 00.100 1.000 1/.00 0	ATOM ATOM	8724 8725	CG CD1 CD2	PHE C 68 PHE C 68	4 39.62 4 39.36 4 40.89	9 83.067 8 83.077 8 83.407	53.478 54.846	1.00 18.28 1.00 17.56	6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8728 8729 8731 8733 87332 87334 87335 87335 87336 87337 87340 87340 87443 87445 87445 87445 87445 8755 8755 8755	CE2 CZ	ASP C 688 ASP C 688 ALA C 688 ALA C 688 ALA C 688 ILE C 688 VAL C 689 ILE C 690	41 41 38 38 39 40 41 43 43 43 43 43 43 43 43 43 43	.618 8375 8571 8801 8490 8741 8888 8390 8545 .999 8125 8257 7725 8257 8	34.5.66.5.7.8.7.78.66.7.69.5.3.13.73.66.5.3.3.66.7.8.3.66.8.3.3.66.8.3.3.66.8.3.3.66.8.3.3.66.8.3.3.66.8.3.3.66.8.3.3.66.8.3.3.3.66.8.3.3.3.3	53.937 55.303 549.931 51.655 50.222 51.685 51.920 51.830 51.927 51.830 51.830 51.830 51.830 51.830 51.830 51.830 62.831 63.831 64.325 64.32	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	52.04 50.57 51.95 56.69 57.76 81.74 79.22 13.87 77.60 77.71 32.24 29.34 20.69 21.41 20.26 19.57 28.39 29.02 28.34 26.56 13.87 13	6668766688687666886876668876666876668766668
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8772 8773 8774 8775 8776 8777 8778 8779	CG2 CG1 CD1 C O N CA CB	ILE C 690 ILE C 690 ILE C 690 ILE C 690 SER C 690 SER C 690 SER C 690	27 30 30 29 27 27 27 1 26 1 24 1 23	.739 7 .008 7 .702 8 .260 7 .636 7 .008 7 .981 7	7.912 8.717 0.126 7.523 6.695 7.601 6.627 7.276	41.192 41.757 41.285	1.00 1.00 1.00 1.00 1.00 1.00 1.00	33.95 32.30 34.94	6 6
ATOM ATOM ATOM ATOM	8780 8781 8782 8783	OG C O N	SER C 693 SER C 693 SER C 693 GLU C 693	L 24 L 24	.816 7 .414 7	5.815 6.347	42.805 41.770 42.885	1.00	17.19 15.71 13.87	6 8 7

ATOM 8810 CA LEU C 695 25.160 74.434 36.497 1.00 17.08 6 ATOM 8811 CB LEU C 695 26.129 73.458 37.146 1.00 22.44 6 ATOM 8813 CD LEU C 695 27.368 74.219 37.611 1.00 21.41 6 ATOM 8813 CD1 LEU C 695 28.391 73.268 38.217 1.00 20.97 6 ATOM 8814 CD2 LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8815 C LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8816 O LEU C 695 23.657 73.802 34.752 1.00 19.69 8 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 70.86 6 ATOM 8822 CE LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8823 NZ LYS C 696 20.177 69.068 41.512 1.00 74.27 6 ATOM 8824 C LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.36 8 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 55.92 7 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8820 CD ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8821 NE ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00109.57 6	ATOM 8810 CA LEU C 695 25.160 74.434 36.497 1.00 17.08 6 ATOM 8811 CB LEU C 695 26.129 73.458 37.146 1.00 22.44 6 ATOM 8812 CG LEU C 695 27.368 74.219 37.611 1.00 21.41 6 ATOM 8813 CD1 LEU C 695 28.391 73.268 38.217 1.00 20.97 6 ATOM 8814 CD2 LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8815 C LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8816 O LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.037 38.581 1.00 70.86 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8822 CE LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8823 NZ LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8824 C LYS C 696 21.214 73.007 35.288 1.00 74.27 6 ATOM 8825 O LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8820 CD ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00104.05 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00108.72 6	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8799 8800 8801 8802 8803 8804 8805 8806 8807 8808	CA CB CG CD OE1 OE2 C O N CA CB CCD OE1 OE2 C O N CA CB CCD OE1 OE2 C O N CA CB CD OE1 OE2 C O N CA CB CD OE1 OE2 C O N CA CB CB CD O N CA CB CD O N	GLU C G GL	692 692 692 692 692 693 693 693 693 693 693 694 694 694 694 694 694	25.048 24.766 24.620 24.552 23.552 25.511 23.985 24.214 22.831 21.709 20.794 19.366 18.700 19.240 17.638 22.221 21.937 23.000 23.547 24.760 24.343 25.570 23.490 23.927 23.478 24.744	73.667 72.244 71.239 69.838 69.515 69.070 74.103 74.076 74.518 74.923 75.886 75.867 74.516 75.584 77.362 78.181 79.563 80.411 80.205 76.394 76.515 75.415	41.729 42.184 41.067 41.610 42.291 41.376 40.733 39.521 41.256 40.422 41.174 40.666 40.937 40.511 41.586 39.163 38.057 39.340 38.206 38.638 39.117 39.420 38.027 37.108 35.966 37.462	1.00 15.29 1.00 40.04 1.00 42.87 1.00 44.48 1.00 44.52 1.00 17.14 1.00 15.79 1.00 17.95 1.00 63.29 1.00 67.04 1.00 69.46 1.00 70.03 1.00 70.28 1.00 19.53 1.00 19.53 1.00 62.57 1.00 65.09 1.00 62.57 1.00 65.09 1.00 42.25 1.00 42.71 1.00 42.10 1.00 41.62 1.00 67.07 1.00 67.07 1.00 67.07	6666886876666886876666687
ATOM 8807 C LEU C 694 23.927 76.394 37.108 1.00 66.05 6 ATOM 8808 O LEU C 694 23.478 76.515 35.966 1.00 67.07 8 ATOM 8809 N LEU C 695 24.744 75.415 37.462 1.00 16.69 7 ATOM 8810 CA LEU C 695 25.160 74.434 36.497 1.00 17.08 6 ATOM 8811 CB LEU C 695 26.129 73.458 37.146 1.00 22.44 6 ATOM 8812 CG LEU C 695 27.368 74.219 37.611 1.00 21.41 6 ATOM 8813 CD1 LEU C 695 28.391 73.268 38.217 1.00 20.97 6 ATOM 8815 C LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8816 O LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 19.27 6 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8822 CE LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8824 C LYS C 696 20.687 70.659 39.632 1.00 74.27 7 ATOM 8824 C LYS C 696 20.687 70.659 39.632 1.00 74.27 7 ATOM 8826 N ARG C 697 21.244 73.007 35.288 1.00 51.36 8 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8829 CG ARG C 697 19.665 76.260 35.31 1.00 19.57 7 ATOM 8820 CD ARG C 697 19.665 76.260 35.31 1.00 19.57 7 ATOM 8820 CD ARG C 697 19.665 76.260 35.31 1.00 19.57 6 ATOM 8820 CD ARG C 697 17.797 77.996 34.653 1.00109.57 7 ATOM 8820 CZ ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8820 CZ ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 6	ATOM 8807 C LEU C 694 23.927 76.394 37.108 1.00 66.05 6 ATOM 8808 O LEU C 694 23.478 76.515 35.966 1.00 67.07 8 ATOM 8809 N LEU C 695 24.744 75.415 37.462 1.00 16.69 7 ATOM 8810 CA LEU C 695 25.160 74.434 36.497 1.00 17.08 6 ATOM 8811 CB LEU C 695 26.129 73.458 37.146 1.00 22.44 6 ATOM 8812 CG LEU C 695 27.368 74.219 37.611 1.00 21.41 6 ATOM 8813 CD1 LEU C 695 27.953 74.960 36.421 1.00 21.41 6 ATOM 8814 CD2 LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8815 C LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8816 O LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8822 CE LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8824 C LYS C 696 20.687 70.659 39.632 1.00 74.27 6 ATOM 8825 O LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8826 N ARG C 697 21.212 69.583 40.572 1.00 74.27 7 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 74.27 7 ATOM 8827 CA ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8820 CC ARG C 697 19.665 76.260 35.031 1.00 19.79 5 6 ATOM 8828 CB ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8828 CB ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00109.57 7 ATOM 8833 NH1 ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8834 NH2 ARG C 697 16.486 80.508 34.505 1.00109.06 7 ATOM 8835 C ARG C 697 16.486 80.508 34.505 1.00109.06 7 ATOM 8835 C ARG C 697 16.486 80.508 33.291 1.00107.13 7 ATOM 8836 O ARG C 697 16.486 80.508 33.291 1.00107.13 7 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	ATOM ATOM	8804 8805	CG CD1	LEU C	694 694	24.343 25.570	79.563 80.411	39.117 39.420	1.00 42.71 1.00 42.10	6 6
ATOM 8810 CA LEU C 695 25.160 74.434 36.497 1.00 17.08 6 ATOM 8811 CB LEU C 695 26.129 73.458 37.146 1.00 22.44 6 ATOM 8813 CD LEU C 695 27.368 74.219 37.611 1.00 21.41 6 ATOM 8813 CD1 LEU C 695 28.391 73.268 38.217 1.00 20.97 6 ATOM 8814 CD2 LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8815 C LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8816 O LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8822 CE LYS C 696 20.177 69.068 41.512 1.00 74.27 6 ATOM 8824 C LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8825 O LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8826 N ARG C 697 21.244 73.007 35.288 1.00 51.81 6 ATOM 8827 CA ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8820 CD ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8821 NE ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8822 CZ ARG C 697 19.665 76.260 35.031 1.00 100.05.7 8 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 100.05.7 7 ATOM 8820 CD ARG C 697 19.665 76.260 35.031 1.00 100.05.7 7 ATOM 8831 NE ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00109.06 7	ATOM 8810 CA LEU C 695 25.160 74.434 36.497 1.00 17.08 6 ATOM 8811 CB LEU C 695 26.129 73.458 37.146 1.00 22.44 6 ATOM 8812 CG LEU C 695 27.368 74.219 37.611 1.00 21.41 6 ATOM 8813 CD1 LEU C 695 28.391 73.268 38.217 1.00 20.97 6 ATOM 8814 CD2 LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8815 C LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8816 O LEU C 695 23.2657 73.802 34.752 1.00 19.69 8 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 21.725 71.037 38.581 1.00 72.79 6 ATOM 8822 CE LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8823 NZ LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8824 C LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8825 O LYS C 696 21.244 73.007 35.288 1.00 51.81 6 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 21.194 74.337 35.362 1.00 57.84 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 19.665 76.260 33.919 1.00104.05 6 ATOM 8830 CD ARG C 697 19.665 76.260 33.919 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8833 NH1 ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8834 NH2 ARG C 697 15.961 79.469 33.870 1.00109.06 7 ATOM 8834 NH2 ARG C 697 15.961 79.469 33.870 1.00109.06 7 ATOM 8834 NH2 ARG C 697 15.961 79.469 33.870 1.00109.06 7 ATOM 8834 NH2 ARG C 697 15.961 79.469 33.870 1.00109.06 7 ATOM 8834 NH2 ARG C 697 15.961 79.469 33.870 1.00109.06 7 ATOM 8835 C ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8836 O ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	ATOM ATOM	8807 8808	C 0	LEU C	694 694	23.927 23.478	76.394 76.515	37.108 35.966	1.00 66.05 1.00 67.07	6 8
ATOM 8813 CD1 LEU C 695 28.391 73.268 38.217 1.00 20.97 6 ATOM 8814 CD2 LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8815 C LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8816 O LEU C 695 23.657 73.802 34.752 1.00 19.69 8 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8822 CE LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8823 NZ LYS C 696 20.687 70.659 39.632 1.00 74.27 6 ATOM 8824 C LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8825 O LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8826 N ARG C 697 21.244 73.007 35.288 1.00 51.81 6 ATOM 8827 CA ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8828 CB ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8829 CG ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8820 CD ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8830 CD ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8831 NE ARG C 697 17.797 77.996 34.653 1.00109.57 7 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00109.06 7	ATOM 8813 CD1 LEU C 695 28.391 73.268 38.217 1.00 20.97 6 ATOM 8814 CD2 LEU C 695 27.953 74.960 36.421 1.00 21.28 6 ATOM 8815 C LEU C 695 23.944 73.710 35.943 1.00 19.27 6 ATOM 8816 O LEU C 695 23.657 73.802 34.752 1.00 19.69 8 ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8822 CE LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8823 NZ LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8824 C LYS C 696 21.212 69.583 40.572 1.00 74.27 7 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.81 6 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8830 CD ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8831 NE ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8833 NH1 ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8834 NH2 ARG C 697 14.829 79.618 33.919 1.00109.57 7 ATOM 8834 NH2 ARG C 697 14.829 79.618 33.197 1.00109.75 7 ATOM 8835 C ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8836 O ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8836 O ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8836 O ARG C 697 14.829 79.618 33.293 1.00 56.05 6 ATOM 8836 O ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8836 O ARG C 697 14.829 79.618 33.197 1.00107.13 7	ATOM ATOM	8810 8811	CA CB	LEU C	695 695	25.160 26.129	74.434 73.458	36.497 37.146	1.00 17.08 1.00 22.44	6 6
ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8822 CE LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8823 NZ LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8824 C LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.81 6 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8833 NH1 ARG C 697 15.961 79.469 33.870 1.00109.06 7	ATOM 8817 N LYS C 696 23.215 73.008 36.805 1.00 49.24 7 ATOM 8818 CA LYS C 696 22.035 72.270 36.367 1.00 50.88 6 ATOM 8819 CB LYS C 696 21.125 71.970 37.552 1.00 68.54 6 ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8822 CE LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8823 NZ LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8824 C LYS C 696 20.695 72.375 34.388 1.00 51.81 6 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.81 6 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8830 CD ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8831 NE ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8833 NH1 ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06 7 ATOM 8834 NH2 ARG C 697 14.829 79.618 33.197 1.00109.13 7 ATOM 8835 C ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8836 O ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	ATOM ATOM	8814 8815	CD2 C	LEU C	695 695	28.391 27.953 23.944	74.960 73.710	38.217 36.421 35.943	1.00 21.28 1.00 19.27	6 6 6
ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8822 CE LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8823 NZ LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8824 C LYS C 696 21.244 73.007 35.288 1.00 51.81 6 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.36 8 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 18.404 76.647 34.243 1.00104.05 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00108.72 6 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06	ATOM 8820 CG LYS C 696 21.725 71.037 38.581 1.00 70.86 6 ATOM 8821 CD LYS C 696 20.687 70.659 39.632 1.00 72.79 6 ATOM 8822 CE LYS C 696 21.212 69.583 40.572 1.00 74.27 6 ATOM 8823 NZ LYS C 696 20.177 69.068 41.512 1.00 74.29 7 ATOM 8824 C LYS C 696 21.244 73.007 35.288 1.00 51.81 6 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.36 8 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 18.404 76.647 34.243 1.00104.05 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8833 NH1 ARG C 697 15.961 79.469 33.870 1.00109.57 7 ATOM 8834 NH2 ARG C 697 14.829 79.618 33.197 1.00109.06 7 ATOM 8835 C ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8836 O ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	ATOM ATOM	8817 8818	N CA	LYS C	696 696	23.215 22.035	73.008 72.270	36.805 36.367	1.00 49.24 1.00 50.88	7 6
ATOM 8824 C LYS C 696 21.244 73.007 35.288 1.00 51.81 6 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.36 8 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 18.404 76.647 34.243 1.00104.05 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00108.72 6 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06 7	ATOM 8824 C LYS C 696 21.244 73.007 35.288 1.00 51.81 6 ATOM 8825 O LYS C 696 20.695 72.375 34.388 1.00 51.36 8 ATOM 8826 N ARG C 697 21.194 74.337 35.362 1.00 55.92 7 ATOM 8827 CA ARG C 697 20.452 75.116 34.369 1.00 57.84 6 ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 18.404 76.647 34.243 1.00104.05 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00108.72 6 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06 7 ATOM 8834 NH2 ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8835 C ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8836 O ARG C 697 21.037 76.676 32.634 1.00 56.84 8 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	ATOM ATOM	8821 8822	CD CE	LYS C	696 696	20.687 21.212	70.659 69.583	39.632 40.572	1.00 72.79 1.00 74.27	6 6 6
ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 18.404 76.647 34.243 1.00104.05 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00108.72 6 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06 7	ATOM 8828 CB ARG C 697 19.665 76.260 35.031 1.00 98.96 6 ATOM 8829 CG ARG C 697 18.404 76.647 34.243 1.00104.05 6 ATOM 8830 CD ARG C 697 17.797 77.996 34.653 1.00107.95 6 ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00108.72 6 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06 7 ATOM 8834 NH2 ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8835 C ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8836 O ARG C 697 21.037 76.676 32.634 1.00 56.84 8 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	MOTA MOTA	882 <u>4</u> 8825	C O	LYS C LYS C ARG C	696 696 697	21.244 20.695	73.007 72.375	35.288 34.388	1.00 51.81 1.00 51.36 1.00 55.92	6 8
ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00108.72 6 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06 7	ATOM 8831 NE ARG C 697 16.557 78.280 33.919 1.00109.57 7 ATOM 8832 CZ ARG C 697 15.961 79.469 33.870 1.00108.72 6 ATOM 8833 NH1 ARG C 697 16.486 80.508 34.505 1.00109.06 7 ATOM 8834 NH2 ARG C 697 14.829 79.618 33.197 1.00107.13 7 ATOM 8835 C ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8836 O ARG C 697 21.037 76.676 32.634 1.00 56.84 8 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	MOTA MOTA	8828 8829	CB CG	ARG C	697 697	19.665 18.404	76.260 76.647	35.031 34.243	1.00 98.96 1.00104.05	6 6
	ATOM 8835 C ARG C 697 21.367 75.685 33.293 1.00 56.05 6 ATOM 8836 O ARG C 697 21.037 76.676 32.634 1.00 56.84 8 ATOM 8837 N ASP C 698 22.510 75.031 33.112 1.00 28.31 7	ATOM ATOM ATOM	8831 8832 8833	NE CZ NH1	ARG C ARG C ARG C	697 697 697	16.557 15.961 16.486	78.280 79.469 80.508	33.919 33.870 34.505	1.00109.57 1.00108.72 1.00109.06	7 6 7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9009 901123 9001123 900113 900	C O N CA CB OG1 CG2	C C C C C C C C C C C C C C C C C C C	717 717 717 717 717 717 718 718 718 718	65.909 65.231 67.111 63.702 63.535 62.840 61.616 60.473 59.531 57.705 57.291 57.291 57.291 57.315 57	63.4416663.80661.22880661.2750664.35897988896612.75101.9664.3665.3666.3666.3666.3666.3666.3666.3	6.051 7.328 3.093 3.222 4.890 3.2253 1.890 2.2453 1.2897 1.5218 -0.017 0.2278 3.5791 -0.2278 3.5791 -0.2278 3.5791 -0.2278 3.5791 -0.2278 3.5791 -0.2278 -0.22	1.00 47.94 1.00 47.23 1.00 48.12 1.00 33.29 1.00 78.89 1.00 76.02 1.00 77.03 1.00 61.22 1.00 61.22 1.00 61.23 1.00 61.23 1.00 61.23 1.00 61.23 1.00 74.13 1.00 72.83 1.00 33.83 1.00 34.95 1.00 35.85 1.00 37.33 1.00 37.33 1.00 37.33 1.00 37.33 1.00 37.33 1.00 38.93 1.00 85.00 1.00 87.32 1.00 88.92 1.00 87.32 1.00 88.92 1.00 87.32 1.00 88.92 1.00 87.32	6668766876666876668868766667677687666668766866
ATOM ATOM ATOM	9054 9055 9056	CB OG1 CG2	THR C THR C THR C	723 723 723 723 723 724 724 724 724	49.590 49.707 50.943	59.663 58.734 60.329	4.793 5.878 4.592	1.00 55.19 1.00 54.66 1.00 56.20	6 8 6 8 7 6 6 6 6

ATOM ATOM ATOM	9120 9121 9122	N CA CB	ALA C 732 ALA C 732 ALA C 732	43.181 41.965 40.777	50.552 51.102 50.219	15.651 15.085 15.428	1.00 65.70 1.00 66.50 1.00161.43	7 6 6
MOTA	9123	C	ALA C 732	41.793	52.484	15.705	1.00 66.79	6
MOTA	9124	0	ALA C 732	41.086	52.641	16.700	1.00 67.04	8
ATOM ATOM	9125 9126	N CA	ALA C 733 ALA C 733	42.481 42.444	53.467 54.865	15.126 15.557	1.00 50.23 1.00 49.45	7 6
ATOM	9127	CB	ALA C 733	43.731	55.252	16.247	1.00 43.43	6
ATOM	9128	Č	ALA C 733	42.352	55.588	14.248	1.00 49.60	6
MOTA	9129	0	ALA C 733	41.327	56.170	13.900	1.00 49.80	8
ATOM	9130	N	LEU C 734	43.459	55.514	13.525	1.00 61.31 1.00 62.40	7
ATOM ATOM	9131 9132	CA CB	LEU C 734	43.614 44.379	56.108 55.138	12.206 11.312	1.00 62.40	6 6
MOTA	9133	CG	LEU C 734	45.512	54.422	12.034	1.00 68.37	6
MOTA	9134	CD1		45.858	53.168	11.259	1.00 69.37	6
ATOM	9135	CD2	LEU C 734	46.704	55.357	12.199	1.00 67.78	6
ATOM ATOM	9136 9137	С 0	LEU C 734	42.274 41.699	56.402 57.478	11.560 11.743	1.00 62.65 1.00 62.31	6 8
ATOM	9138	N	ARG C 735	41.800	55.415	10.805	1.00 62.31	7
ATOM	9139	CA	ARG C 735	40.539	55.495	10.091	1.00146.90	6
ATOM	9140	CB	ARG C 735	40.562	54.540	8.892	1.00160.15	6
ATOM	9141	CG	ARG C 735	41.615	54.913	7.849 6.801	1.00162.75 1.00166.69	6 6
ATOM ATOM	9142 9143	CD NE	ARG C 735	41.786 42.920	53.827 54.096	5.918	1.00169.50	7
MOTA	9144	CZ	ARG C 735	43.435	53.210	5.067	1.00170.43	6
MOTA	9145	NH1	ARG C 735	42.919	51.989	4.981	1.00171.49	7
ATOM	9146	NH2	ARG C 735	44.467	53.542	4.302	1.00170.03	7
ATOM ATOM	9147 9148	С 0	ARG C 735 ARG C 735	39.349 38.202	55.203 55.181	11.002 10.549	1.00145.75 1.00146.80	6 8
ATOM	9149	N	ASP C 736	39.621	54.972	12.286	1.00140.00	7
MOTA	9150	CA	ASP C 736	38.541	54.738	13.242	1.00 92.16	6
ATOM	9151	CB	ASP C 736	39.091	54.274	14.598	1.00181.71	6
ATOM	9152 9153	CG OD1	ASP C 736 ASP C 736	38.028 37.045	53.604 54.276	15.467 15.841	1.00184.26 1.00185.06	6 8
ATOM ATOM	9154	OD1	ASP C 736	38.177	52.401	15.775	1.00183.00	8
ATOM	9155	C	ASP C 736	37.965	56.145	13.334	1.00 88.95	6
MOTA	9156	0	ASP C 736	36.883	56.382	13.860	1.00 88.81	8
ATOM	9157	N	LEU C 737	38.742	57.067	12.785	1.00 49.70	7
ATOM ATOM	9158 9159	CA CB	LEU C 737	38.427 38.811	58.479 59.197	12.688 13.971	1.00 46.17 1.00 66.95	6 6
ATOM	9160	CG	LEU C 737	38.021	58.770	15.203	1.00 67.44	6
MOTA	9161	CD1	LEU C 737	38.541	59.520	16.433	1.00 67.94	6
ATOM	9162		LEU C 737	36.539	59.037	14.962	1.00 67.08	6
ATOM ATOM	9163 9164	C 0	LEU C 737	39.361 39.724	58.876 58.036	11.556 10.745	1.00 43.59 1.00 43.12	6 8
ATOM	9165	N	ALA C 738	39.747	60.136	11.478	1.00 51.25	7
MOTA	9166	CA	ALA C 738	40.673	60.534	10.434	1.00 48.98	6
ATOM	9167	СВ	ALA C 738	42.075	60.088	10.823	1.00 13.87	6
ATOM ATOM	9168 9169	C O	ALA C 738 ALA C 738	40.307 40.893	59.926 58.938	9.090 8.704	1.00 47.86 1.00 47.89	6 8
ATOM	9170	N	GLU C 739	39.348	60.496	8.376	1.00 47.33	7
ATOM	9171	CA	GLU C 739	38.975	59.959	7.072	1.00 27.39	6
ATOM	9172	CB	GLU C 739	37.475	60.158	6.801	1.00132.71	6
ATOM ATOM	9173 9174	CG CD	GLU C 739	37.062 36.706	61.524 61.491	6.264 4.785	1.00136.99 1.00139.07	6 6
ATOM	9175	OE1		35.700	60.610	4.765	1.00139.76	8
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ATOM 9213 CA ILE C 745 33.620 66.653 11.728 1.00 13.90 6 ATOM 9214 CB ILE C 745 32.634 67.422 10.852 1.00 35.23 6 ATOM 9215 CG2 ILE C 745 32.013 68.549 11.667 1.00 33.55 6 ATOM 9216 CG1 ILE C 745 33.354 67.995 9.634 1.00 35.74 6 ATOM 9217 CD1 ILE C 745 34.431 68.987 9.992 1.00 36.65 6 ATOM 9218 C ILE C 745 32.836 65.918 12.792 1.00 13.87 6 ATOM 9219 O ILE C 745 32.836 65.918 12.792 1.00 13.87 8 ATOM 9220 N GLY C 746 32.599 64.723 12.672 1.00 13.87 8 ATOM 9221 CA GLY C 746 32.448 66.639 13.836 1.00 42.04 7 ATOM 9222 C GLY C 746 32.507 64.934 15.577 1.00 43.25 6 ATOM 9223 O GLY C 746 32.507 64.934 15.577 1.00 43.26 6 ATOM 9224 N ALA C 747 32.074 64.275 16.523 1.00 42.12 8 ATOM 9224 N ALA C 747 34.560 63.709 15.587 1.00 33.91 6 ATOM 9225 CA ALA C 747 34.560 63.709 15.587 1.00 33.91 6 ATOM 9227 C ALA C 747 35.012 64.005 17.012 1.00 35.07 6 ATOM 9228 O ALA C 747 35.012 64.005 17.012 1.00 35.92 8 ATOM 9229 N GLU C 748 34.135 63.800 17.994 1.00 22.58 7 ATOM 9230 CA GLU C 748 34.531 64.064 19.376 1.00 23.16 6 ATOM 9231 CB GLU C 748 34.531 64.064 19.376 1.00 23.16 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	$\begin{array}{c} 9233\\ 9223\\ 233\\ 233\\ 345\\ 678\\ 999\\ 9224\\ 445\\ 678\\ 999\\ 9925\\ 255\\ 5678\\ 999\\ 9226\\ 634\\ 5678\\ 909\\ 9227\\ 778\\ 909\\ 9228\\ 834\\ 567\\ 890\\ 92266\\ 678\\ 909\\ 9227\\ 778\\ 909\\ 9228\\ 834\\ 8567\\ 890\\ 92266\\ 678\\ 909\\ 9227\\ 778\\ 909\\ 9228\\ 834\\ 8567\\ 890\\ 800\\ 800\\ 800\\ 800\\ 800\\ 800\\ 800$	OE2 CCONCACCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	GLU C 748 GLU C 749 VAL C 749 VAL C 749 VAL C 749 VAL C 750 LYS C C 750 LYS C C 750 LYS C C C 750 LYS C C C 751 PRO C C C 751 PRO C C C 751 PRO C C C 752 GLY C C C C C C C C C C C C C C C C C C C	35.635 35.360 35.360 35.345 36.789 38.190 39.491 38.982 39.456 39.821 40.498 40.39.982 40.498 40.39.983 40.427 41.689 42.699 441.688 43.027 44.156 45.865 45.865 46.444 44.329 44.688 45.267 46.498 47.435 46.196 47.431 46.496 47.431 47	61.040 61.499 60.352 60.872 59.160 59.389 62.613 62.411 63.791 64.976 66.181 67.393 67.869 67.036	22.235 23.317 21.503 19.611 19.273 20.176 20.427 19.673 20.173 18.201 21.894 22.660 22.271 23.376 22.391 22.460 24.532 25.902 24.137 24.532 26.814 24.850 24.532 26.814 24.850 23.247 20.271 20.271 21.894 22.460 24.532 25.902 26.814 24.850 23.653 21.247 20.214 20.215 20.214 20.215 20.214 20	1.00 75.97 1.00 76.61 1.00 76.18 1.00 22.18 1.00 21.12 1.00 36.56 1.00 38.14 1.00 13.87 1.00 13.87 1.00 40.54 1.00 41.94 1.00 37.16 1.00 37.78 1.00 72.44 1.00 74.47 1.00 75.51 1.00 74.34 1.00 74.01 1.00 37.97 1.00 36.77 1.00 24.59 1.00 48.60 1.00 49.06 1.00 27.98 1.00 27.80 1.00 49.06 1.00 27.98 1.00 96.71 1.00 39.63 1.00 96.71 1.00 39.63 1.00 39.63 1.00 37.59 1.00 61.42 1.00 61.59 1.00 62.12 1.00 37.17 1.00 39.63 1.00 26.11 1.00 23.46 1.00 16.59 1.00 16.51 1.00 20.74 1.00 20.74 1.00 20.74 1.00 20.74 1.00 20.63 1.00 22.66 1.00 19.01 1.00 21.40	6886876666876666768766666876687668876688766687666666
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	93445678999999999999999999999999999999999999	N CA C O N CA C C C C O N C C C C C O N C C C C C O N C C C C	GLN C 765 GLN C 765 GLN C 765 GLN C 766 GLU C 766 FRO C		65.858 66.6947 68.747 68.768 67.747 68.768 67.496 68.412 66.577 66.5791 66.5791 67.65.8287 67.0.7693 69.9367 70.7693 69.9367 70.1899 68.8357 70.1899 70.189	59.552 58.368 59.149 57.875 57.927 57.620 58.642 58.895 57.927 57.620 58.642 59.8160 57.326 54.709 54.759 53.726 53.759 53.759 53.759 53.759 53.52.291 53.52.291 53.52.355 53.52.391 53.52.391 53.726 53.726 53.729	8.078 8.091 9.169 8.966 10.317 11.453 12.746 13.111 11.987 11.173 11.316 11.558 10.774 12.070 13.303 14.740 15.537 9.254 9.072 7.996 6.963 6.134 5.105 4.457 4.938 8.649 9.325 7.919 8.710	1.00 98.12 1.00100.72 1.00102.72 1.00102.66 1.00155.30 1.00157.88 1.00 99.28 1.00 98.82 1.00 98.23 1.00 97.44 1.00 97.72 1.00159.07 1.00159.07 1.00159.14 1.00 78.66 1.00 79.59 1.00174.48 1.00175.53 1.00176.86 1.00176.70 1.00177.18 1.00 79.76 1.00 79.76 1.00 79.42 1.00 83.53 1.00 84.28 1.00112.35 1.00114.45 1.00115.73 1.00116.02 1.00116.55 1.00 84.41 1.00 84.45 1.00 84.90 1.00102.04 1.00102.18 1.00 85.38 1.00 85.98 1.00102.04 1.00102.18 1.00 85.38 1.00 85.98 1.00121.38 1.00 93.71 1.00 93.67 1.00121.74 1.00121.74 1.00121.95 1.00102.93 1.00 90.05 1.00104.29 1.00104.29 1.00104.29 1.00104.29 1.00104.29	76687666688687666687687666688687666668766887666687
MOTA MOTA MOTA	9391 9392 9393	CB CG C	PRO C 769 PRO C 769)))))))))	72.210 73.538 70.904	42.063 42.325	7.207 7.836 9.298	1.00 90.05 1.00104.29	6 6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9432 9433 9433 94336 9433 9443 9443 9444 9444	CONCACBOOK	GLU GGLU GGLU GGLU GGLU GGLU GGLU GGLU	C 771 C 772 C 772 C 772 C 772 C 772 C 773 C 773 C 774 C 774 C 774 C 776 C 776 C 777	73.340 74.463 67.985 67.985 67.770 66.8732 67.770 66.8732 67.770 66.8732 66.2123 66.2123 66.2123 66.3131 66.3131 66.3131 67.751 66.8733 66.7942 67.751 66.8733 67.7751 66.8733 67.7751 66.8733 66.7942 67.7751 66.8733 67.7751 66.8733 67.7751 66.8733 67.7751	42.962 40.986 40.196 42.874 44.639 44.639 44.6559 44.6559 43.658 43.6	12.737 13.136 11.008 11.325 10.851 11.026 11.354 12.822 13.139 12.733 13.801 9.757 8.6393 9.755 7.232 14.270 2.116 2.945 7.685 8.242 6.940 8.445 10.700 12.890 12.890 12.890 12.895 12.100 12.895 12.970 12.970 12.9	1.00 60.08 1.00 61.22 1.00155.66 1.00156.68 1.00 47.62 1.00 47.75 1.00183.49 1.00184.01 1.00185.18 1.00 47.79 1.00185.18 1.00 47.79 1.00 46.93 1.00 97.85 1.00 99.27 1.00198.00 1.00198.00 1.00198.00 1.00198.35 1.00197.11 1.00 98.44 1.00 97.98 1.00 46.86 1.00 66.86 1.00 66.86 1.00 66.86 1.00 66.86 1.00 67.40 1.00 82.47 1.00 82.83 1.00127.21 1.00126.02 1.00 90.56	88687666886876666767768766666687666668766687668766
ATOM 9	9453 9454	CB CG2	ILE C	: 777 : 777	62.918 62.315 64.228	35.857 34.659 35.474	7.766 8.808 9.513 8.124	1.00 54.13 1.00 88.03 1.00 87.22 1.00 89.30	6 6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9456 9457 9458 9459 9460 9461 9462 9463 9464 9465	CD1 C O N CA CB CG CD1 CD2 CE1	ILE C 777 ILE C 777 ILE C 777 PHE C 778	65.262 60.602 59.571 60.612 59.379 59.698 60.573 61.896 60.059 62.682 60.844	34.896 36.587 36.209 37.191 37.447 37.795 36.779 36.612 35.923 35.605 34.912	9.054 8.424 7.874 9.600 10.317 11.767 12.428 12.026 13.386 12.562 13.927	1.00 91.23 1.00 53.63 1.00 54.38 1.00 80.03 1.00 80.08 1.00 79.43 1.00 79.06 1.00 78.85 1.00 78.93 1.00 78.25 1.00 78.31	66876666666
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9467 9468 9469 9470 9471 9472 9473	CZ C O N CA C O N	PHE C 778 PHE C 778 PHE C 778 GLY C 779 GLY C 779 GLY C 779 GLY C 779 ALA C 780	62.153 58.620 58.211 58.451 57.738 57.593 56.496 58.721	34.753 38.571 39.530 38.428 39.394 40.754 41.308 41.295	13.511 9.637 10.287 8.319 7.496 8.133 8.233 8.563	1.00 77.66 1.00 81.48 1.00 82.69 1.00 83.84 1.00 85.02 1.00 86.05 1.00 86.31 1.00 58.08	6 6 8 7 6 8 7
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9475 9476 9477 9478 9479 9480 9481 9482	CA CB C O N CA CB C	ALA C 780 ALA C 780 ALA C 780 ALA C 781 ALA C 781 ALA C 781 ALA C 781 ALA C 781	58.741 59.834 59.800 58.114 58.147 56.728 58.829	42.580 42.595 43.708 44.565 43.694 44.706 45.016 45.983	9.218 10.254 8.224 8.403 7.177 6.126 5.670 6.597	1.00 59.13 1.00 88.73 1.00 60.39 1.00 61.00 1.00105.56 1.00106.36 1.00152.25 1.00106.65	66687666
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9483 9484 9485 9486 9487 9488 9489 9490	O N CA CB C O N CA	ALA C 781 ALA C 782 ALA C 782 ALA C 782 ALA C 782 ALA C 782 ARG C 783 ARG C 783	58.381 59.913 60.665 61.874 59.811 58.659 60.390 59.688	46.615 46.354 47.552 47.695 48.822 48.805 49.925 51.201	7.554 5.922 6.276 5.358 6.231 5.783 6.695 6.735	1.00106.54 1.00 90.59 1.00 91.46 1.00 46.35 1.00 92.22 1.00 92.80 1.00127.32 1.00127.42	8 7 6 6 6 8 7 6
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9491 9492 9493 9494 9495 9496 9497 9498	CB CG CD NE CZ NH1	ARG C 783 ARG C 783	59.027 60.036 59.374 60.363 60.092 58.860 61.055 60.638	51.374 51.446 51.400 51.483 51.290 51.001 51.387 52.370	8.103 9.247 10.617 11.688 12.974 13.358 13.879 6.487	1.00132.46 1.00133.87 1.00134.71 1.00135.25 1.00135.83 1.00135.68 1.00136.98 1.00126.33	0 6 6 6 7 6 7 7 6
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9499 9500 9501 9502 9503 9504 9505	O N CA CB CG OD1 OD2	ARG C 783 ASP C 784 ASP C 784 ASP C 784 ASP C 784 ASP C 784	61.831 60.094 60.858 61.078 62.224 63.387 61.961	52.280 53.462 54.677 54.858 54.027 54.298 53.106	6.768 5.961 5.686 4.179 3.642 4.011 2.843	1.00125.68 1.00 96.81 1.00 96.62 1.00165.71 1.00167.54 1.00168.36 1.00168.28	8 7 6 6 6 8 8
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9506 9507 9508 9509 9510 9511	C N CA CB CG1	ASP C 784 ASP C 784 VAL C 785 VAL C 785 VAL C 785 VAL C 785	60.048 60.163 59.242 58.395 57.065 55.991	55.864 56.973 55.640 56.707 56.674 57.305	6.198 5.671 7.233 7.740 6.992 7.824	1.00 95.97 1.00 96.30 1.00 84.48 1.00 81.77 1.00 76.38 1.00 78.53	6 8 7 6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9539 9540 9541 9542 9543 9544	CONCACBCCONCACBCCONCACBCCCONCACBCCCCCCCCCC	LYS C 7 ASP C 7 THR C 7 SER C 7	85 85 86 86 86 86 86 86 86 86 86 86 86 86 86	57.208 58.108 57.859 58.127 57.851 58.651 60.119 60.747 62.174 62.786 55.859 54.447 55.859 54.942 54.040 52.530 51.926 51.942 54.098 53.005 55.735 55.235 55.349 52.422 51.044 50.082 50.305 51.716	57.395 56.759 55.729 57.983 58.248 59.457 59.203 60.411 60.132 61.311 58.542 57.595 58.472 57.548 58.472 57.594 60.246 60.204 60.847 62.264 63.169 64.511 62.704 62.653 63.045 62.041 60.739 64.429 65.255	5.674 9.242 9.880 9.780 11.196 11.694 11.974 12.669 13.132 13.811 11.394 10.485 12.592 12.904 14.095 14.312 14.689 14.105 13.206 13.686 12.927 13.191 12.432 12.437 10.994 11.651 13.753 13.489 14.120 13.613 14.074 14.114	1.00 75.8 1.00 80.5 1.00 80.3 1.00 65.9 1.00 64.9 1.00 87.5 1.00 89.0 1.00 89.5 1.00 90.4 1.00 64.5 1.00 64.8 1.00 77.0 1.00 91.2 1.00 90.9 1.00 90.9 1.00 90.7 1.00 91.6 1.00 76.5 1.00 97.6 1.00 93.4 1.00 95.9 1.00 95.9 1.00 96.0 1.00 96.4 1.00 95.9 1.00 96.4 1.00 95.9 1.00 96.4 1.00 95.9 1.00 96.4 1.00 95.9 1.00 95.9 1.00 96.0 1.00 95.9 1.00 95.9 1.00 96.0 1.00 95.9 1.00 95.9 1.00 95.9 1.00 95.9 1.00 95.9 1.00 95.9	29188169402081874052713852655505
ATOM ATOM	9545 9546	N CA	LEU C 7 LEU C 7	90	49.575	64.683 65.962	14.510 15.107 14.381	1.00 68.4 1.00 66.8 1.00 35.4	7 6
ATOM ATOM	9547 9548	CB CG		90 90	48.061 47.605	66.615 67.806	15.206	1.00 33.4	4 6
ATOM	9549	CD1		90	48.772	68.750	15.359	1.00 33.7	
ATOM ATOM	9550 9551	CD2 C	LEU C 7	90 90	46.421 48.801	68.493 65.764	14.570 16.543	1.00 34.4 1.00 67.0	
MOTA	9552	Ō	LEU C 7	90	49.280	66.458	17.438	1.00 67.3	6 8
ATOM	9553	N	ARG C 7		47.880	64.824	16.737	1.00 86.0	
ATOM ATOM	9554 9555	CA CB	ARG C 7		47.346 48.308	64.460 63.509	18.049 18.758	1.00 84.4 1.00 62.5	
ATOM	9556	CB	ARG C 7		48.452	62.201	18.048	1.00 63.5	
MOTA	9557	CD	ARG C 7	91	49.277	61.219	18.835	1.00 65.3	9 6
ATOM	9558	NE	ARG C 7		49.596	60.070	17.997	1.00 67.0	
ATOM ATOM	9559 9560	CZ NH1	ARG C 7		50.304 50.773	59.025 58.972	18.395 19.633	1.00 68.4 1.00 69.4	
ATOM	9561	NH2			50.773	58.044	17.546	1.00 69.2	
MOTA	9562	C	ARG C 7	91	46.983	65.597	18.991	1.00 82.7	4 6
ATOM	9563	0	ARG C 7		47.699	66.590	19.105	1.00 84.1	
ATOM	9564 9565	N	VAL C 7 VAL C 7		45.865 45.439	65.437 66.461	19.683 20.602	1.00 13.8 1.00 13.8	
ATOM ATOM	9566	CA CB	VAL C 7		43.439	66.366	20.889	1.00 13.8	
ATOM	9567		VAL C 7		43.550	67.385	21.922	1.00 39.0	

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	99999999999999999999999999999999999999	C O N CA	VAL C C C C C C C C C C C C C C C C C C C	800	43.178 46.2381 46.2913 46.882 47.736 48.960 48.960 48.960 49.2239 44.793 49.2239 44.793 45.5824 43.9112 44.793 45.5824 44.793 45.5824 44.793 45.5826 46.913 47.706 47.706 47.706 47.706 47.706 47.706 47.706 47.10	66.632 66.3360 66.3360 67.5798 67.7176 68.799.7457 67.4914 67.7969.7457 67.4914 67.7969.757 67.4914 67.7969.757 67.4914 67.7969.757 67.1739 67.3353 67	19.617 21.889 22.550 22.246 21.547 23.425 23.294 22.623 24.698 25.043 27.128.123 27.27.27 28.161 26.513 27.213 27.	1.00 38.69 1.00 13.87 1.00 13.87 1.00 54.22 1.00 30.05 1.00 55.90 1.00 31.06 1.00 29.13 1.00 58.23 1.00 60.69 1.00 54.15 1.00 99.87 1.00 54.81 1.00101.03 1.00 99.96 1.00 55.50 1.00 56.42 1.00 89.83 1.00 90.80 1.00 91.15 1.00 90.96 1.00 69.13 1.00 69.47 1.00 69.47 1.00 69.47 1.00 69.47 1.00 69.47 1.00 51.86 1.00 51.20 1.00 53.71 1.00 51.86 1.00 51.20 1.00 53.71 1.00 30.90 1.00 51.86 1.00 51.20 1.00 53.71 1.00 30.90 1.00 52.65 1.00 38.08 1.00 51.38 1.00 37.82 1.00 38.08 1.00 52.47 1.00 24.03 1.00 52.47 1.00 24.03 1.00 52.47	66876666876666876687668886876687668766668766
ATOM ATOM ATOM ATOM	9611 9612 9613 9614	CD1 C O N CA CB	ILE C ILE C ILE C VAL C VAL C VAL C	799 799 799 800 800 800 800 800 800 800	30.228 34.631 34.909 34.891	67.298 68.369 69.542 67.777	20.656 18.464 18.708 17.298	1.00 38.08 1.00 51.09 1.00 52.47 1.00 24.03	6687666687
ATOM ATOM	9622 9623	CA CB	VAL C		33.813 33.840	71.567 72.913	14.934 15.645	1.00 31.22 1.00 24.39	6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	999999999999999999999999999999999999	CG1 CG2 C O N CA C O N C C C C C O N C C C C C C O N C C C C	ARG C 803 ARG C 803 ARG C 803 LEU C 804 ARG C 805 ARG C	32. 32. 33. 33. 33. 33. 33. 33.	909 72 9071 72 157 72 1589 71 1589 72 163 69 1727 71 163 69 1727 71 163 69 1727 71 163 69 1727 71 163 69 1727 71 1645 72 1727 72 1727 73 1727 74 1737 75 1747 75 1757 77 1757 77 1	.843 .802 .207 .5661 .771 .8121 .471 .469 .040 .122 .746 .984 .0182 .7746 .865 .7970 .089 .771 .982 .089 .775 .089 .775 .215 .215 .215 .216 .216 .217 .217 .227 .238 .238 .238 .238 .238 .238 .238 .238	$\begin{array}{c} 14.6\\ 8.45\\ 6.84$	1.00 23.1 1.00 23.1 1.00 33.1 1.00 33.1 1.00 57.1 1.00 59.1 1.00 60.1 1.00 61.1 1.00 44.1 1.00 46.1 1.00 77.1 1.00 75.1 1.00 75.1 1.00 45.1 1.00 45.1 1.00 45.1 1.00 45.1 1.00 45.1 1.00 45.1 1.00 45.1 1.00 45.1 1.00 65.1 1.00 67.1 1.00 67.1 1.00 67.1 1.00 67.1 1.00 68.1 1.00 67.1 1.00 68.1 1.00 67.1 1.00 68.1 1.00 73.1 1.00 68.1 1.00 73.1 1.00 68.1 1.00 73.1 1.00 68.1 1.00 73.1 1.00 68.1 1.00 73.1 1.00 68.1 1.00 75.1 1.00 68.1 1.00 75.1 1.00 173.1 1.00 68.1 1.00 173.1 1.00 68.1 1.00 173.1 1.	94 99 99 91 90 90 90 90 90 90 90 90 90 90 90 90 90
ATOM	9676	CZ	ARG C 807 ARG C 807	45 46 45	.906 69 .489 68 .063 69	0.164 3.067 0.081	-3.434	1.00198.	77 6 22 7 20 7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9681 9681 9682 96883 96884 96888 96889 96899 96899 96899 9699 97001 97007 97111 97113 97114 97114 97110 97110	O N CA CB CCD NE CZ NH1 NH2 C O N CA CB CGD1 CCA CCB CCC O N CCC CCC CCC CCC CCC CCCC CC	ARG C 8 ARG C	308 308 308 308 308 308 308 308 308 308	47.857 49.988 50.489 52.680 54.204 54.838 56.993 56.6916 49.856 47.315 47.315 47.461 46.123 45.809 44.543 45.809 44.543 45.809 44.543 45.809 44.543 45.809 44.543 45.809 47.315 47.461 47.315 47.461 47.315 47.461 47.3162 47.312 47.316	74.899 74.947 75.698 75.756 74.427 74.528 73.290 73.063 73.991 71.908 75.034 75.832 76.032 76.549 76.549 76.549 76.549 76.549 76.549 76.549 76.549 76.679 75.868 74.894 78.022 78.757 78.324 80.177 80.511 79.628 81.063 82.243 82.698 81.612 80.985 79.458 79.178 81.201	-2.119 -1.423 -2.575 -2.596 -2.915 -3.006 -2.541 -2.530 -2.969 -3.847 -3.8899 -6.149 -6.122 -7.154 -4.900 -4.644 -3.145 -2.850 -3.567 -1.881 -5.352 -4.698 -5.352 -4.698 -5.337 -4.429 -3.9563 -2.3866 -2.3866 -2.3866 -0.745 -0.995	1.00 43.25 1.00 21.30 1.00 18.77 1.00 43.57 1.00 42.55 1.00 42.16 1.00 43.97 1.00 44.91 1.00 45.22 1.00 45.87 1.00 16.07 1.00 68.74 1.00 70.46 1.00 71.55 1.00 73.19 1.00 57.25 1.00 57.46 1.00 46.40 1.00 46.83 1.00 45.83 1.00 45.83 1.00 44.68 1.00 45.83 1.00 44.68 1.00 45.44 1.00 44.85 1.00 87.07 1.00 88.35 1.00 91.85 1.00 92.22 1.00 43.41 1.00 41.37 1.00 26.32 1.00 25.69 1.00 41.50	876666767768766887666886876666688766866666
MOTA MOTA	9716 9717	CA CB	VAL C 8	13 13	47.690 47.395	80.985 79.458	-0.745 -0.647	1.00 41.37 1.00 26.32	6 6
ATOM	9719	CG2	VAL C 8	13	45.907	79.178	-0.947	1.00 25.69	6
ATOM ATOM	9721 9722	O N	VAL C 8 GLU C 8	13	49.753	80.756	-1.992	1.00 40.43	8
ATOM ATOM ATOM	9723 9724	CA CB	GLU C 8	14	49.824 51.252 51.558	81.919 82.166 83.654	-0.080 -0.149 0.097	1.00 34.98 1.00 37.19 1.00115.90	7 6
ATOM ATOM	9725 9726	CG CD	GLU C 8	14	51.185 51.402	84.161 85.658	1.496 1.686	1.00113.30 1.00119.46 1.00121.07	6 6
ATOM ATOM	9727 9728	OE1 OE2	GLU C 8	14	50.693 52.277	86.450 86.040	1.033	1.00122.38	8
ATOM ATOM	9729 9730	C O	GLU C 8	14	51.717 51.220	81.319 81.483	1.026	1.00 37.29 1.00 37.09	6 8
ATOM ATOM	9731 9732	N CA	LEU C 8	15	52.637 53.052	80.390 79.565	0.806 1.931	1.00 28.62 1.00 29.31	7 6
ATOM ATOM	9733 9734	CB CG	LEU C 8	15 15	52.386 50.882	78.192 78.194	1.855 1.590	1.00 36.74 1.00 35.82	6 6
ATOM	9735	CD1	LEU C 8	15	50.660	78.503	0.126	1.00 36.39	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9792 9793 9794 9795 9796 9797 9798	O N CA CB CG1 CG2 C	VAL C	823 823 823 823 823	46.785 47.507 46.249 46.308 45.004 46.581 45.880	73.817 71.780 71.378 69.878 69.435 69.035 72.211	6.583 7.095 7.708 8.123 8.776 6.912 8.937	1.00 28.3 1.00 24.6 1.00 24.2 1.00 15.3 1.00 15.0 1.00 16.4 1.00 25.4	7 7 3 6 5 6 7 6 6 6
ATOM ATOM	9799 9800	O N	VAL C ARG C	823	46.754 44.581	72.594	9.729 9.081	1.00 26.3 1.00 37.2	8 8
MOTA	9801	CA	ARG C		44.048	73.217	10.232	1.00 36.4	2 6
ATOM	9802	CB	ARG C		43.706	74.656	9.876	1.00 41.2	
ATOM ATOM	9803 9804	CG CD	ARG C	824 824	44.900 44.451	75.561	9.769	1.00 41.9	
ATOM	9805	NE	ARG C		45.567	76.955 77.790	9.424 9.001	1.00 44.2 1.00 46.9	
ATOM	9806	CZ	ARG C		45.444	79.061	8.635	1.00 47.6	
ATOM	9807	NH1	ARG C		44.245	79.643	8.642	1.00 48.0	
ATOM	9808	NH2	ARG C		46.520	79.747	8.269	1.00 48.1	
ATOM	9809	C	ARG C		42.784	72.525	10.704	1.00 35.8	
ATOM ATOM	9810 9811	O N.T	ARG C		41.932	72.168	9.888	1.00 35.4	
ATOM	9812	N CA	VAL C	825	42.664 41.490	72.337 71.691	12.016 12.593	1.00 38.8	
ATOM	9813	CB	VAL C		41.779	70.208	12.898	1.00 30.0	
MOTA	9814	CG1		825	40.641	69.584	13.710	1.00 13.8	
MOTA	9815	CG2		825	41.939	69.463	11.610	1.00 13.8	
ATOM ATOM	9816	C	VAL C		41.003	72.386	13.868	1.00 37.5	
ATOM	9817 9818	O N	VAL C PHE C	825 826	41.771 39.734	72.516 72.828	14.827 13.856	1.00 37.01 1.00 25.91	
ATOM	9819	CA	PHE C	826	39.096	73.502	14.994	1.00 23.5	
MOTA	9820	CB		826	38.096	74.543	14.535	1.00 16.43	
ATOM	9821	CG	PHE C	826	38.639	75.545	13.590	1.00 16.49	
ATOM ATOM	9822 9823	CD1 CD2		826	39.872	76.125	13.802	1.00 17.42	
ATOM	9824	CE1	PHE C	826 826	37.877 40.345	75.970 77.122	12.515 12.958	1.00 16.83	
ATOM	9825	CE2		826	38.337	76.962	11.669	1.00 16.62	
MOTA	9826	CZ	PHE C	826	39.582	77.541	11.897	1.00 17.5	
ATOM	9827	C		826	38.316	72.520	15.854	1.00 25.23	
ATOM	9828 9829	0		826	37.588	71.685	15.325	1.00 24.96	
ATOM ATOM	9830	N CA	VAL C	827 827	38.439 37.754	72.655 71.785	17.174 18.134	1.00 27.15	
ATOM	9831	CB	VAL C		38.748	71.703	18.998	1.00 20.05	
MOTA	9832		VAL C	827	38.042	70.373	20.152	1.00 21.09	
ATOM	9833		VAL C		39.393	69.929	18.192	1.00 22.40	
ATOM ATOM	9834 9835	C 0	VAL C		36.936 37.424	72.635	19.073	1.00 29.38	
ATOM	9836	N	ALA C		35.706	73.643 72.231	19.548 19.358	1.00 32.32 1.00 23.2	
ATOM	9837	CA	ALA C		34.872	73.011	20.253	1.00 24.00	
MOTA	9838	CB	ALA C	828	33.423	72.947	19.810	1.00 13.87	
ATOM	9839	C	ALA C		35.015	72.477	21.660	1.00 25.87	
ATOM ATOM	9840 9841	N N	ALA C GLN C		35.602 34.468	71.422 73.206	21.855	1.00 26.88	
ATOM	9842	CA	GLN C		34.525	72.806	22.634 24.042	1.00 44.45	
ATOM	9843	CB	GLN C		35.925	73.080	24.591	1.00 25.13	
ATOM	9844	CG	GLN C		36.639	71.870	25.163	1.00 26.53	L 6
ATOM ATOM	9845 9846	CD OF1	GLN C		38.022	72.218	25.698	1.00 27.53	
ATOM	9847	OE1 NE2	GLN C		38.787 38.353	72.934 71.700	25.048 26.880	1.00 27.91 1.00 28.79	
			J (30.333	,, 00	20.000	1.00 20.71	, ,

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9848 9849 98551 98553 98553 98556 98556 98556 98556 98556 98556 98566 98566 98667 9877 9878 9888 9888 9887 9887 9	CONCABCCD CCCCNCCNH12CONCABCCDCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		90000000011111111112222222233333333	33.489 33.752 32.313 31.291 30.049 28.730 27.638 26.243 25.185 31.990 32.352 32.164 32.890 34.073 35.225 36.136 37.389 38.425 38.354 39.522 32.207 32.888 30.897 30.190 29.877 29.311 28.366 27.080 26.026 30.942 31.604 30.842 31.512 30.513 31.006 32.109 29.872	73.524 74.611 72.930 73.524 72.645 73.330 72.319 72.782 71.813 73.449 72.356 74.586 74.584 75.539 74.934 75.146 75.466 74.579 74.803 73.451 74.803 73.451 72.425 71.424 72.113 71.157 75.668 76.647 75.314 76.088 77.081 78.938 79.182	24.934 25.437 25.124 25.992 26.046 25.813 26.135 25.733 26.191 27.333 27.776 27.995 29.247 29.095 28.313 27.549 30.600 31.564 30.697 31.971 32.614 31.643 32.304 32.715 33.141 32.987 34.266 35.306 35.920 36.844 36.145 37.230 36.381	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	48.43 55.79 44.95 55.70 44.99 62.58 44.99 63.77 63.33 63	6876666768766667677687666667687666666
ATOM ATOM	9880	CA	LEU C 83	3	31.512	76.088	34.266 35.306	1.00	19.43	7 6
MOTA	9882	CG	LEU C 83	3	31.006	78.195	36.844	1.00	13.87	6
		_								
ATOM	9885	CDZ	LEU C 83		32.138	75.142	36.381		18.99	6
ATOM	9886	0	LEU C 83		31.473	74.316	36.965		18.69	8
ATOM	9887 9888	N CA	GLN C 83 GLN C 83		33.430 34.149	75.389 74.585	36.638 37.620	1.00		7 6
ATOM	9889	CB	GLN C 83		35.226	73.770	36.917	1.00		6
ATOM	9890	CG	GLN C 83		34.823	73.247	35.564		72.95	6
ATOM ATOM	9891 9892	CD OE1	GLN C 83 GLN C 83		35.890 37.039	72.354 72.767	34.980 34.815	1.00		6 8
ATOM	9893	NE2			35.520	71.115	34.666	1.00		7
MOTA	9894	С	GLN C 83	4	34.805	75.371	38.754	1.00	25.06	6
ATOM	9895 9896	0	GLN C 83		34.796	76.597	38.781	1.00		8
ATOM ATOM	9897	N CA	VAL C 83 VAL C 83		35.392 36.079	74.623 75.172	39.680 40.827	1.00		7 6
MOTA	9898	CB	VAL C 83	5	36.346	74.104	41.828	1.00	14.75	6
ATOM ATOM	9899 9900		VAL C 83 VAL C 83		37.114 35.053	74.666 73.524	42.981 42.271	1.00		6 6
ATOM	9901	CGZ	VAL C 83		37.407	75.791	40.449	1.00		6
ATOM	9902	0	VAL C 83	5	38.408	75.104	40.255	1.00	13.87	8
ATOM	9903	N	GLY C 83	6	37.398	77.112	40.382	1.00	38.13	7

ATOM ATOM	9904 9905	CA C	GLY C 8	336	38.561 37.859	77.895 79.068	40.014 39.388	1.00	38.87 39.59	6 6
ATOM ATOM	9906 9907	O N	GLY C 8		36.947 38.246	79.625 79.440	39.999 38.180	1.00	40.37 15.05	8 7
ATOM	9908	CA	ASP C 8		37.571	80.543	37.470	1.00		6
MOTA	9909	СВ	ASP C 8		36.283	80.050	36.758	1.00	30.43	6
ATOM	9910	CG	ASP C 8		36.204	78.534	36.625	1.00	30.90	6
ATOM ATOM	9911 9912	OD1 OD2		337 337	35.425 36.896	78.057 77.810	35.779 37.365	1.00	31.21 31.70	8 8
ATOM	9913	C		337	37.195	81.840	38.229	1.00	17.18	6
MOTA	9914	Ō	ASP C 8		36.721	81.837	39.379	1.00	15.72	8
ATOM	9915	N	LYS C 8		37.393	82.956	37.537	1.00	51.34	7
ATOM ATOM	9916 9917	CA CB		338 338	37.074 38.029	84.250 85.307	38.094 37.536	1.00	50.43	6 6
ATOM	9918	CB		338 338	39.457	85.176	38.068	1.00	43.09	6
ATOM	9919	CD		338	40.381	86.221	37.470	1.00	44.30	6
ATOM	9920	CE		338	39.827	87.606	37.648	1.00	45.38	6
ATOM ATOM	9921 9922	NZ C	LYS C 8		40.582 35.630	88.498 84.584	36.754	1.00	47.80	7
ATOM	9923	0	LYS C 8		35.030	84.431	37.755 36.615	1.00	49.10 50.63	6 8
ATOM	9924	Ň		339	34.880	85.022	38.754	1.00	21.50	7
ATOM	9925	CA		339	33.500	85.352	38.523	1.00	18.88	6
ATOM ATOM	9926	CB	LEU C 8		32.654	84.948	39.721	1.00	13.87	6
ATOM	9927 9928	CG CD1	LEU C 8	339 339	31.429 30.827	84.085 84.533	39.391 38.074	1.00	13.87 13.87	6 6
ATOM	9929	CD2	LEU C 8		31.826	82.633	39.302	1.00	13.87	6
ATOM	9930	С		339	33.403	86.837	38.258	1.00	18.99	6
ATOM	9931	0		339	32.684	87.258	37.372	1.00	19.95	8
ATOM ATOM	9932 9933	N CA	ALA C 8		34.109 34.136	87.634 89.074	39.038 38.821	1.00	13.87 13.87	7 6
MOTA	9934	CB	ALA C		35.382	89.406	38.064	1.00	95.91	6
MOTA	9935	С	ALA C 8		32.946	89.759	38.133	1.00	13.87	6
ATOM	9936	0	ALA C 8		32.643	89.504	36.970	1.00	13.87	8
ATOM ATOM	9937 9938	N CA	ASN C 8		32.308 31.163	90.676 91.419	38.858 38.341	1.00	49.24 50.01	7 6
ATOM	9939	СВ		341	30.166	91.723	39.451	1.00	20.39	6
MOTA	9940	CG	ASN C 8		30.715	92.659	40.486	1.00	18.55	6
ATOM	9941	OD1 ND2	ASN C S	341 341	30.110 31.860	92.836 93.269	41.543	1.00	18.43	8
ATOM ATOM	9942 9943	C ND2	ASN C 8		31.571	93.269	40.199 37.683	1.00	18.43 49.72	7 6
MOTA	9944	Ö	ASN C 8		32.631	92.800	37.068		52.22	8
MOTA	9945	N	ARG C 8		30.731	93.745	37.841		27.48	7
ATOM ATOM	9946 9947	CA CB	ARG C 8		30.977	95.047	37.221 36.717		27.33	6
ATOM	9948	CG	ARG C 8		29.660 29.075	95.649 94.961	35.490		23.83 23.93	6 6
ATOM	9949	CD	ARG C 8		27.774	95.599	35.065	1.00	23.24	6
ATOM	9950	NE	ARG C 8		26.792	95.541	36.140		22.83	7
ATOM ATOM	9951 9952	CZ NH1	ARG C 8		25.509 25.070	95.839 96.213	35.985 34.795		23.87 23.14	6 7
ATOM	9953		ARG C 8		24.672	95.759	37.010		23.14	7
MOTA	9954	C	ARG C 8	342	31.680	96.063	38.095	1.00	27.01	6
ATOM	9955	0	ARG C 8		32.464	96.857	37.603		26.37	8
ATOM ATOM	9956 9957	N CA	HIS C 8		31.393 32.021	96.047 96.982	39.389 40.296	1.00	19.36 18.78	7 6
ATOM	9958	CB	HIS C 8		31.155	97.173	41.514		18.72	6
ATOM	9959	CG	HIS C 8		29.806	97.700	41.179		18.72	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	9975 9976 9977 9978 9979 9981 9982 9983 9984 9985	ND1 CE1 NE2 C O N CA C O N CA CB CB	HIS C 84 HIS C 84 GLY C 84 GLY C 84 GLY C 84 ASN C 84 ASN C 84 ASN C 84 ASN C 84	293 2283 2273 333 333 333 334 335 34 34 35 55 55 55 55 55 56 66 66 66 66 66 66 66	.624 .335 .674 .391 .963 .921 .243 .308 .258 .313 .328 .914 .909 .444 .306 .943 .487 .989 .652 .830 .943 .943 .943 .943 .943 .943 .943 .943	97.195 98.880 99.082 98.072 96.517 95.551 94.234 93.275 94.2345 991.366 991.366 991.366 991.918 991.363 99	41.390 40.496 40.301 40.835 40.698 41.661 39.947 40.242 41.446 42.219 41.620 42.745 43.267 44.604 44.727 45.615 42.312 42.713 41.497 40.995 40.102 40.704 41.335 41.528 40.224 42.048 42.850	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	19.21 19.38 19.92 20.05 19.82 20.83 25.94 25.22 25.40 26.35 22.56 42.57 43.63 42.96 43.19 22.56 14.03 13.87 28.49 31.68 34.63 35.89 34.76 13.87 13.87	676768766876668768766666768
ATOM		N	GLY C 84			87.722	42.017	1.00	27.87	7
ATOM		CA	GLY C 84			86.676	42.956		29.18	6
MOTA		C	GLY C 84			85.351	42.227		30.07	6
MOTA		0	GLY C 84			85.240	41.259		33.23	8
MOTA		\mathbf{N}	VAL C 84			84.348	42.673		17.28	7
ATOM		CA	VAL C 84			83.027	42.031		16.07	6
MOTA		CB	VAL C 84			82.449	42.007		15.08	6
ATOM		CG1				81.913 81.393	43.381 40.962		14.66 14.79	6 6
MOTA		CG2 C	VAL C 84 VAL C 84			82.042	40.962		15.51	6
MOTA MOTA		0	VAL C 84			82.034	43.957		15.51	8
ATOM		N	VAL C 84			81.211	41.969		34.35	7
ATOM		CA	VAL C 84			80.278	42.602		35.20	6
ATOM	10000	СВ	VAL C 84		.169	79.467	41.599	1.00	15.91	6
ATOM			VAL C 84			78.610	42.375		15.91	6
ATOM	10002	CG2	VAL C 84			80.376	40.629		15.91	6
ATOM		С	VAL C 84			79.257	43.484		36.06	6
ATOM		0	VAL C 84			78.678	43.111		36.56	8
ATOM		N	ALA C 85			79.030	44.656		13.87	7
ATOM		CA	ALA C 85			78.075	45.598 47.005		13.87 30.43	6 6
ATOM		CB	ALA C 85 ALA C 85			78.637 76.792	45.528		13.87	6
ATOM ATOM		C O	ALA C 85			75.807	44.980		13.87	8
ATOM		N	LYS C 85			76.803	46.072		15.04	7
ATOM		CA	LYS C 85			75.615	46.058		16.33	6
ATOM		CB	LYS C 85	1 32		75.177	47.483		47.89	6
MOTA		CG	LYS C 85			74.453	48.154		51.90	6
MOTA		CD	LYS C 85			73.697	49.331		55.82	6
ATOM	10015	CE	LYS C 85	1 34	1.049	72.604	49.804	1.00	58.16	6

ATOM	10016	NZ	LYS C		33.488	71.855	50.970		61.84	7
MOTA MOTA	10017 10018	C O	LYS C		31.545 31.112	75.811 76.932	45.314 45.075	1.00		6 8
ATOM	10018	N	ILE C		30.927	74.705	44.930	1.00		o 7
ATOM	10020	CA		852	29.638	74.742	44.269	1.00		6
MOTA	10021	СВ		852	29.695	74.259	42.809	1.00	45.44	6
MOTA	10022	CG2		852	30.195	75.359	41.907	1.00		6
ATOM	10023	CG1		852	30.589	73.025	42.702	1.00		6
MOTA MOTA	10024 10025	CD1 C	ILE C		32.054 28.839	73.276 73.756	43.035 45.091	1.00		6 6
ATOM	10025	0	ILE C		29.029	72.554	44.981	1.00		8
ATOM	10027	N		853	27.974	74.277	45.950	1.00	32.11	7
MOTA	10028	CA		853	27.147	73.456	46.818	1.00	32.54	6
MOTA	10029	CB	LEU C		26.733	74.256	48.053	1.00	33.03	6
ATOM ATOM	10030 10031	CG CD1	LEU C	853 853	27.652 29.102	74.338 74.497	49.272 48.862	1.00	34.33 33.26	6 6
ATOM	10031	CD1	LEU C		27.192	75.506	50.142	1.00	33.78	6
ATOM	10033	C	LEU C		25.892	72.950	46.112	1.00	32.54	6
ATOM	10034	0		853	25.429	73.538	45.129	1.00	33.26	8
ATOM	10035	N		854	25.324	71.842	46.614	1.00	15.91	7
ATOM	10036 10037	CD	PRO C	854 854	25.876 24.114	71.064 71.211	47.741	1.00	21.01 15.76	6
ATOM ATOM	10037	CA CB		854	24.114	69.845	46.081 46.730	1.00		6 6
ATOM	10039	CG		854	24.742	70.151	48.093	1.00	21.49	6
MOTA	10040	С	PRO C	854	22.939	72.036	46.563	1.00	15.96	6
ATOM	10041	0	PRO C		22.963	72.518	47.693	1.00		8
MOTA	10042	N	VAL C		21.913	72.208	45.736	1.00	13.99	7
ATOM ATOM	10043 10044	CA CB	VAL C	855 855	20.772 19.572	73.019 72.873	46.158 45.191	1.00	14.16 15.96	6 6
ATOM	10044	CG1	VAL C		20.021	73.048	43.759	1.00	15.79	6
ATOM	10046	CG2		855	18.933	71.538	45.370	1.00	16.37	6
MOTA	10047	С	VAL C		20.328	72.636	47.577	1.00	15.92	6
ATOM	10048	0	VAL C		19.685	73.444	48.261	1.00	14.68	8
MOTA MOTA	10049 10050	N CA	GLU C		20.684 20.367	71.406 70.852	47.994 49.326	1.00	47.18 49.10	7 6
ATOM	10050	CB	GLU C		21.216	69.613	49.641	1.00	76.95	6
MOTA	10052	CG		856	21.317	68.541	48.575	1.00	79.55	6
MOTA	10053	CD	GLU C	856	22.169	67.352	49.041	1.00	81.76	6
MOTA	10054	OE1	GLU C		21.821	66.728	50.067	1.00	82.70	8
ATOM ATOM	10055 10056	OE2 C	GLU C		23.188 20.706	67.042 71.896	48.386 50.380		82.38 49.17	8 6
ATOM	10057	Ö	GLU C		19.829	72.501	51.003		48.86	8
ATOM	10058	N	ASP C		22.008	72.060	50.590		29.03	7
ATOM	10059	CA	ASP C		22.543	73.043	51.510		30.39	6
MOTA	10060	CB	ASP C		24.056	72.915	51.579		31.58	6
ATOM ATOM	10061 10062	CG OD1	ASP C		24.514 24.547	71.558 71.347	52.070 53.310		32.45 32.14	6 8
ATOM	10062	OD1	ASP C		24.847	70.707	51.206		32.14	8
MOTA	10064	C	ASP C		22.193	74.366	50.834		32.77	6
ATOM	10065	0	ASP C		21.254	74.422	50.031	1.00		8
ATOM	10066	N Ca		858	22.945	75.423	51.130	1.00		7
ATOM ATOM	10067 10068	CA CB		858 858	22.690 22.422	76.724 76.583	50.512 49.005	1.00 1.00		6 6
ATOM	10069	CG		858	23.611	76.383	48.158		53.88	6
ATOM	10070	SD	MET C	858	24.764	77.516	47.938	1.00	53.56	16
ATOM	10071	CE	MET C	858	23.670	78.836	47.358	1.00	51.17	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10072 10073 10074 10075 10076 10077 10078 10079 10080 10081 10082 10083 10084 10085 10086 10087 10088	CONCACBCCGCONCACBCCGCCONCCBCCCCCCCCCCCCCCCCCCCCCCCCCCCC	PRO C PRO C PRO C PRO C HIS C	858 859 859 859 859 859 859 860 860 860 860 860 860	21.515 20.402 21.756 23.102 20.753 21.414 22.817 19.393 19.257 18.407 17.036 16.332 16.073 16.692 15.086 15.109 16.076 16.322 16.423	77.479 76.966 78.716 79.260 79.599 80.952 80.627 79.528 79.935 78.985 78.822 77.716 76.455 75.252 76.352 75.143 74.454 80.148 80.720	51.103 51.163 51.548 51.784 52.131 51.997 52.396 51.421 50.260 52.138 51.659 52.477 51.709 51.733 50.752 50.218 50.796 51.877 52.953	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	35.63 46.72 36.25 36.31 47.95 47.86 63.92 63.67 52.57 55.68 55.79 55.08 55.90 62.95 63.85	6876666876666767687
ATOM ATOM	10091	N CA	LEU C	861	15.638 14.901	80.670 81.910	50.869 51.091	1.00	65.05 65.21	7 6
MOTA MOTA	10093 10094	CB CG		861	14.490 14.298	82.567 84.089	49.771 49.799	1.00	25.82 24.82	6 6
ATOM	10095 10096	CD1 CD2	LEU C LEU C	861 861	15.665 13.492	84.764 84.550	49.811 48.600	1.00	23.70 23.90	6 6
MOTA MOTA	10096	CDZ	LEU C		13.492	81.331	51.795	1.00		6
ATOM	10098	0	LEU C		13.516	80.110	51.809	1.00		8
ATOM	10099	N		862	12.803	82.170	52.375	1.00	74.55	7
ATOM	10100	CD		862	12.667	83.631	52.284	1.00	91.58	6
MOTA	10101	CA		862	11.638	81.592	53.053	1.00	72.97	6
MOTA	10102	CB		862	10.854	82.823	53.489	1.00	90.68	6
MOTA MOTA	10103 10104	CG C	PRO C PRO C	862 862	11.177 10.802	83.808 80.634	52.414 52.207	1.00	92.13 71.31	6 6
ATOM	10104	0		862	10.680	79.451	52.537	1.00	71.81	8
ATOM	10105	N		863	10.238	81.137	51.114		34.21	7
ATOM	10107	CA		863	9.403	80.312	50.252		32.54	6
ATOM	10108	CB		863	8.863	81.146	49.096	1.00	51.46	6
ATOM	10109	CG		863	9.958	81.642	48.191	1.00	52.55	6
MOTA	10110	OD1	ASP C ASP C	863	9.676	82.477	47.305	$1.00 \\ 1.00$	52.96 53.95	8 8
MOTA MOTA	10111 10112	C C	ASP C		11.109 10.133	81.188 79.090	48.365 49.707		30.63	6
ATOM	10112	Ö	ASP C		9.537	78.254	49.037		29.45	8
MOTA	10114	N	GLY C		11.426	78.984	49.975		66.70	7
MOTA	10115	CA	GLY C		12.153	77.824	49.497		65.94	6
MOTA	10116	C	GLY C		13.085	78.016	48.317		64.47	6
ATOM	10117	0	GLY C		13.931	77.151	48.051		65.00	8
MOTA MOTA	10118 10119	N CA	THR C		12.937 13.830	79.117 79.342	47.587 46.460		24.19 22.01	7 6
ATOM	10119	CB	THR C		13.563	80.693	45.730		25.34	6
ATOM	10121	OG1	THR C		13.624	81.776	46.668		24.62	8
ATOM	10122	CG2	THR C	865	12.207	80.675	45.029	1.00	25.49	8 6
ATOM	10123	C	THR C		15.213	79.381	47.079		20.25	6
ATOM	10124	0	THR C		15.359	79.776	48.234	1.00		8 7
MOTA MOTA	10125 10126	N CD	PRO C PRO C		16.239 16.176	78.929 78.105	46.341 45.118		19.38 30.86	6
ATOM	10120	CA	PRO C		17.602	78.938	46.865		17.70	6
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ATOM	10128	СВ	PRO C	866	18.203	77.699	46.240	1.00	29.62	6
MOTA	10129	CG	PRO C		17.659	77.798	44.838	1.00	29.65	6
MOTA	10130	С	PRO C		18.298	80.173	46.351		16.75	6
MOTA	10131	0	PRO C		17.875	80.759	45.347		15.08	8
ATOM	10132	N	VAL C		19.364	80.571	47.027		24.38	7
ATOM	10133	CA	VAL C		20.107	81.718	46.555		24.88	6
MOTA	10134	CB	VAL C		20.968	82.302	47.672		40.48	6
ATOM ATOM	10135 10136	CG1 CG2	VAL C		21.400 20.187	83.712 82.301	47.311 48.957		40.84	6 6
ATOM	10137	CGZ	VAL C		20.107	81.152	45.420		25.01	6
ATOM	10137	Ö	VAL C		20.370	79.969	45.099		24.57	8
ATOM	10139	N		868	21.813	81.969	44.792		25.79	7
ATOM	10140	CA		868	22.639	81.447	43.717		28.08	6
MOTA	10141	CB	ASP C		22.328	82.177	42.407		45.92	6
ATOM	10142	CG	ASP C		20.984	81.759	41.807		50.99	6
MOTA	10143	OD1	ASP C	868	20.740	80.539	41.679		54.02	8
MOTA	10144	OD2		868	20.175	82.641	41.445		51.57	8
ATOM	10145	C	ASP C		24.127	81.522	44.041		27.89	6
MOTA	10146	0		868	24.825	80.505	44.014		29.18	8
MOTA MOTA	10147 10148	N CA	VAL C	869 869	24.610 26.009	82.722 82.922	44.354 44.691		13.87 13.87	7 6
ATOM	10148	CB	VAL C		26.691	83.807	43.643		13.87	6
ATOM	10150	CG1	VAL C		25.818	84.943	43.268		13.87	6
MOTA	10151	CG2	VAL C		27.936	84.339	44.177		13.87	6
MOTA	10152	С	VAL C		26.119	83.539	46.080		13.87	6
MOTA	10153	0	VAL C	869	25.347	84.412	46.428	1.00	13.87	8
MOTA	10154	N	ILE C		27.062	83.059	46.883		20.02	7
MOTA	10155	CA	ILE C		27.264	83.566	48.237		19.94	6
ATOM	10156	CB	ILE C		27.458	82.415	49.248		16.17	6
ATOM	10157	CG2	ILE C		27.485	82.960	50.665		15.37	6
MOTA MOTA	10158 10159	CG1 CD1	ILE C	870 870	26.313 24.961	81.415 82.086	49.139 49.153		15.26 17.33	6 6
ATOM	10160	CDI	ILE C		28.480	84.484	48.333		21.12	6
ATOM	10161	Ö		870	29.466	84.149	48.987		19.61	8
MOTA	10162	N		871	28.396	85.634	47.666		29.23	7
ATOM	10163	CA	LEU C	871	29.450	86.652	47.649	1.00	30.67	6
MOTA	10164	CB		871	28.987	87.862	46.831		25.22	6
MOTA	10165	CG		871	29.698	88.283	45.537		27.31	6
ATOM	10166	CD1	LEU C		29.835	87.116	44.576		26.76	6
MOTA	10167	CD2	LEU C		28.911	89.422	44.894		26.18	6
ATOM ATOM	10168 10169	C O	LEU C		29.755 28.861	87.102 87.514	49.078 49.816	1.00 1.00		6 8
ATOM	10109	N	ASN C		31.024	87.033	49.461	1.00		7
ATOM	10171	CA	ASN C		31.436	87.419	50.803	1.00		6
ATOM	10172	CB	ASN C		32.814	86.861	51.117	1.00		6
ATOM	10173	CG	ASN C		33.335	87.352	52.439	1.00		6
ATOM	10174		ASN C		32.982	86.825	53.488	1.00		8
ATOM	10175	ND2			34.165	88.384	52.400	1.00		7
ATOM	10176	C	ASN C		31.487	88.923	50.981	1.00		6
ATOM	10177	O 14	ASN C		31.863	89.651	50.065 52.175	1.00		8
ATOM ATOM	10178 10179	N CD	PRO C PRO C		31.115 30.480	89.408 88.651	52.175	1.00		7 6
ATOM	10179	CA	PRO C		31.124	90.837	52.474	1.00		6
ATOM	10181	CB	PRO C		30.085	90.960	53.573	1.00		6
ATOM	10182	CG	PRO C		30.298	89.707	54.349	1.00		6
MOTA	10183	С	PRO C		32.501	91.226	52.952		21.55	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10184 10185 10186 10187 10188 10199 10191 10192 10193 10194 10195 10196 10197 10198 10199 10200 10201 10202 10203 10204 10205 10206 10207 10208 10209 10210 10211 10212 10213 10214 10215 10216	O N CA CB CG1 CD2 C O N CA CB CG1 CC O N CC C	PRO C 87 LEU C 87 VAL	4444444455556666666777777888888888888888	33.189 32.905 34.197 34.802 35.431 34.488 35.711 35.351 35.351 35.820 36.736 35.945 35.373 35.889 35.203 34.167 33.611 34.803 34.549 35.308 32.895 33.374 32.895 33.374 32.895 33.379 33.665 33.379 33.665 33.379 33.665 33.660 34.790 35.750 36.062	92.005 90.646 90.935 89.675 89.954 90.845 88.636 91.094 92.614 93.793 94.890 92.188 92.305 94.564 95.459 94.773 94.773 94.773 94.945 97.161 98.965 97.848 97.149 98.322	52.322 54.066 54.660 55.245 56.589 57.436 57.248 53.694 52.554 54.167 53.314 52.098 52.082 51.096 49.846 49.756 49.756 49.119 50.392 50.975 50.194 50.524 51.520	1.00	22.64 22.64 219.69 17.49 19.59 10.49 1	87666668766876666876668766868
ATOM ATOM	10218 10219	CA CB	ARG C 87		37.943 38.572	97.292 95.926	52.078 51.784	1.00		6 6
ATOM	10220	CG	ARG C 87		39.124 39.713	95.170	52.990 52.557	1.00	69.39	6 6
ATOM ATOM	10221 10222	CD NE	ARG C 87		40.361	93.827 93.109	53.653		75.91	7
MOTA	10223	CZ	ARG C 87		40.935	91.911	53.526	1.00		6
ATOM ATOM	10224 10225		ARG C 87		40.936 41.510	91.299 91.321	52.345 54.573	1.00		7 7
ATOM	10226	C	ARG C 87		37.987	98.123	50.804	1.00	46.80	6
ATOM	10227	0	ARG C 87		38.732	99.094	50.728	1.00		8
${f ATOM}$	10228 10229	N CA	MET C 88		37.183 37.147	97.741 98.435	49.810 48.517	1.00		7 6
MOTA	10230	CB	MET C 88		36.880	97.427	47.395	1.00	60.39	6
MOTA	10231	CG	MET C 88		37.912	96.309	47.273	1.00		6
MOTA MOTA	10232 10233	SD CE	MET C 88		37.903 38.835	95.102 93.688	48.629 47.883	1.00		16 6
MOTA	10234	C	MET C 88	30	36.145	99.588	48.375	1.00	20.22	6
MOTA	10235	0	MET C 88		36.201		47.403	1.00		8 7
$ ext{MOTA}$	10236 10237	N CA	ASN C 88		35.255 34.230	99.748 100.790	49.349 49.308	1.00		6
ATOM	10238	CB	ASN C 88	31	34.720	102.131	49.864	1.00	19.58	6
ATOM	10239	CG	ASN C 88	31	36.210	102.274	49.838	1.00	20.04	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10240 10241 10242 10243 10244 10245 10246 10247 10248 10249 10250 10251 10252 10253 10254	OD1 ND2 C O N CA CB CCD1 CD2 C O N CA	LEU C LEU C LEU C LEU C LEU C GLY C GLY C GLY C	881 881 882 882 882 882 882 882 882 883 883	36.741 36.904 33.692 34.295 32.524 31.876 32.490 32.657 33.303 33.529 30.335 29.734 29.706 28.259 27.731	101.257 101.002 101.684 100.420 100.495 99.424 98.023 97.111 98.062 100.361 100.224 100.428 100.328 99.081		1.00 1: 1.00 5: 1.00 1: 1.00 1: 1.00 1: 1.00 5: 1.00 5: 1.00 6: 1.00 6: 1.00 6:	0.68 3.87 3.87 1.63 3.27 9.17 7.88 8.68 7.17 5.80 6.16 6.41 8.46 1.24	87687666668766
ATOM ATOM	10255 10256	O N	GLY C		26.817 28.310		43.653 44.799	1.00 73		8 7
ATOM ATOM	10257 10258	CA CB	GLN C		27.874 28.962		44.234 44.378	1.00 5	8.56 1.91	6 6
MOTA	10259	CG	GLN C	884	29.676	95.550	45.734	1.00 1	8.03	6
ATOM ATOM	10260 10261	CD OE1	GLN C		30.662 30.296		45.858 45.649	1.00 1:		6 8
ATOM ATOM	10262 10263	NE2 C	GLN C		31.914 26.639		46.203 44.996	1.00 13		7 6
MOTA	10263	0	GLN C	884	26.055	95.188	44.733	1.00 5	8.54	8
ATOM ATOM	10265 10266	N CA	ILE C		26.257 25.083		45.959 46.768	1.00 69		7 6
ATOM	10267	CB	ILE C		25.244		48.181	1.00 1		6
MOTA	10268	CG2		885	23.906		48.854	1.00 1		6
ATOM ATOM	10269 10270	CG1 CD1	ILE C		26.111 27.491		49.032 48.562		3.87 3.87	6 6
MOTA	10271	C	ILE C	885	23.857	97.413	46.081	1.00 7	0.41	6
MOTA	10272	0	ILE C		22.909		45.752	1.00 7	0.98	8 7
ATOM ATOM	10273 10274	N CA	LEU C	886	23.860 22.731		45.868 45.187	1.00 5		6
MOTA	10275	CB	LEU C	886	22.964	100.831	44.949	1.00 3	1.30	6
ATOM ATOM	10276 10277	CG CD1	LEU C	886 886	23.251 22.945		46.053 45.433		9.77 8.98	6 6
ATOM	10277	CD1	LEU C		22.402		47.315		9.77	6
MOTA	10279	C	LEU C		22.642		43.840	1.00 5		6
ATOM	10280 10281	O N	LEU C GLU C		23.254 21.887		42.858 43.813	1.00 5		8 7
MOTA	10282	CA	GLU C		21.705	96.714	42.621		3.48	6
ATOM	10283	CB	GLU C		23.031		41.890	1.00 4		6
MOTA MOTA	10284 10285	CG CD	GLU C		22.897 24.226		40.756 40.135	1.00 4		6 6
MOTA	10286	OE1	GLU C	887	24.961	95.823	39.583	1.00 4	4.07	8
ATOM ATOM	10287 10288	OE2 C	GLU C		24.525 21.210		40.199 43.194	1.00 40		8 6
ATOM	10289	0	GLU C		20.327		42.652	1.00 73		8
ATOM	10290	N	THR C		21.828		44.303	1.00 1		7
ATOM ATOM	10291 10292	CA CB	THR C		21.487 22.585		45.023 45.959	1.00 1:		6 6
MOTA	10293	OG1	THR C	888	23.802	93.930	45.324	1.00 13	3.87	8
ATOM ATOM	10294 10295	CG2 C	THR C		22.614 20.234		46.293 45.792	1.00 1		6 6
* 7 T OT.1	10270	_	1111C		20.234	2 1 1 2 1 3	10.72	1.00 I	• • • •	J

ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10296 10297 10298 10299 10300 10301 10302	O N CA CB CG CD2 ND1	THR C 88 HIS C 88	39 39 39 39 39	19.386 20.137 18.979 19.329 20.145 20.992 20.135	93.361 95.497 96.033 97.333 97.137 96.145 98.035	46.071 46.137 46.831 47.539 48.777 49.142 49.821	1.00 16.99 1.00 32.23 1.00 32.75 1.00 39.22 1.00 38.72 1.00 40.02	3 7 5 6 2 6 7 6 2 7
ATOM ATOM	10303	CE1 NE2	HIS C 88 HIS C 88	39	20.939 21.474 17.952	97.604 96.459 96.281	50.777 50.391 45.740	1.00 39.04 1.00 38.15 1.00 33.38	7 7
ATOM ATOM	10305 10306	С О	HIS C 88		16.850	95.732	45.788	1.00 34.33	8
MOTA	10307	N	LEU C 89		18.296	97.091	44.739	1.00 18.78	
ATOM ATOM	10308 10309	CA CB	LEU C 89		17.352 17.837	97.293 98.355	43.645 42.667	1.00 18.34 1.00 13.8	
MOTA	10310	CG	LEU C 89		16.915	98.456	41.452	1.00 13.8	
MOTA	10311	CD1	LEU C 89		15.643	99.165	41.840	1.00 13.87	
MOTA	10312 10313	CD2 C	LEU C 89		17.604 17.285	99.158 95.946	40.334 42.920	1.00 13.87 1.00 19.41	
ATOM ATOM	10313	0	LEU C 89		16.892	95.861	41.762	1.00 19.66	
ATOM	10315	N	GLY C 89	91	17.676	94.890	43.623	1.00 60.5	
MOTA	10316	CA	GLY C 89		17.682 16.382	93.560 92.814	43.042 43.186	1.00 63.51 1.00 64.40	
ATOM	10317 10318	С 0	GLY C 89		15.733	92.614	43.100	1.00 65.49	
ATOM	10319	N	LEU C 89	92	16.001	92.510	44.420	1.00 34.08	3 7
ATOM	10320	CA	LEU C 89		14.749 14.633	91.804 91.282	44.620 46.049	1.00 33.79 1.00 28.52	
ATOM ATOM	10321 10322	CB CG	LEU C 89		14.848	92.212	47.212	1.00 28.32	
ATOM	10323	CD1	LEU C 89	92	15.482	91.388	48.297	1.00 27.3	5 6
ATOM	10324	CD2	LEU C 89		15.738	93.357	46.826	1.00 25.52	
ATOM	10325 10326	С О	LEU C 89		13.663 12.543	92.792 92.421	44.284 43.918	1.00 33.48	
ATOM	10327	N	ALA C 85		14.026	94.064	44.383	1.00 62.28	3 7
ATOM	10328	CA	ALA C 85		13.115	95.140	44.039	1.00 63.02	
ATOM ATOM	10329 10330	CB C	ALA C 89		13.581 13.211	96.448 95.196	44.660 42.519	1.00117.4° 1.00 62.12	
ATOM	10330	Ö	ALA C 8		13.429	96.246	41.919	1.00 62.53	3 8
MOTA	10332	N	GLY C 8		13.060	94.028	41.913	1.00 23.90	
ATOM ATOM	10333 10334	CA C	GLY C 89	94 94	13.148 13.160	93.915 92.432	40.479 40.213	1.00 22.93	
ATOM	10334	0	GLY C 8		13.377	91.959	39.095	1.00 23.5	7 8
MOTA	10336	N	TYR C 8		12.957	91.678	41.275	1.00 25.9	
ATOM ATOM	10337 10338	CA CB	TYR C 85		12.896 13.561	90.244 89.614	41.146 42.356	1.00 25.60	
ATOM	10338	CG	TYR C 8:		13.542	88.111	42.429	1.00 22.1	
MOTA	10340	CD1	TYR C 8	95	13.895	87.331	41.338	1.00 21.0	
ATOM ATOM	10341 10342	CE1 CD2	TYR C 8:		14.002 13.283	85.946 87.471	41.460 43.642	1.00 21.2° 1.00 21.8°	
ATOM	10342	CE2	TYR C 8:		13.203	86.095	43.777	1.00 20.7	1 6
MOTA	10344	CZ	TYR C 8	95	13.756	85.339	42.687	1.00 20.9	
ATOM ATOM	10345 10346	OH C	TYR C 8:		13.916 11.389	83.983 90.020	42.839 41.147	1.00 21.63	
ATOM	10340	0	TYR C 8		10.783	89.748	40.097	1.00 26.9	8 0
MOTA	10348	N	PHE C 8	96	10.785	90.204	42.321	1.00 34.0	
MOTA MOTA	10349 10350	CA CB	PHE C 8		9.347 9.009	90.041 90.241	42.504 43.968	1.00 35.2 1.00 27.5	
ATOM	10350	CG	PHE C 8		9.814	89.398	44.874	1.00 26.3	

ATOM	10352	CD1		396	11.089	89.785	45.240		25.96	6
MOTA MOTA	10353 10354	CD2 CE1		396 396	9.294 11.843	88.215 89.002	45.375 46.104	1.00	27.46 27.11	6 6
MOTA	10355	CE2	PHE C 8		10.028	87.421	46.233	1.00	28.63	6
ATOM	10356	CZ	PHE C 8		11.309	87.813	46.605	1.00	28.80	6
ATOM	10357	C	PHE C 8		8.510	91.000	41.652		36.70	6
MOTA	10358 10359	O 14	PHE C 8		7.360 9.089	90.716 92.142	41.305 41.320	1.00	36.27 58.51	8 7
ATOM ATOM	10359	N CA	LEU C 8		8.384	93.114	40.514	1.00	60.85	6
ATOM	10361	CB		397	8.817	94.517	40.923	1.00	42.83	6
MOTA	10362	CG	LEU C 8		7.724	95.579	41.013	1.00	42.87	6
MOTA	10363	CD1	LEU C 8		6.707	95.182	42.071	1.00	43.38	6
MOTA	10364 10365	CD2 C	LEU C 8	397	8.354 8.671	96.907 92.884	41.369 39.025	1.00 1.00	43.44 61.83	6 6
ATOM ATOM	10365	0	LEU C 8		8.295	93.706	38.189	1.00	62.46	8
ATOM	10367	N		398	9.324	91.763	38.704	1.00	38.99	7
MOTA	10368	CA	GLY C 8	398	9.661	91.456	37.322	1.00	39.51	6
MOTA	10369	C	GLY C 8		10.033	92.716	36.563		39.35	6
ATOM	10370	0	GLY C 8		9.219	93.252	35.819		38.82	8
ATOM ATOM	10371 10372	N CA	GLN C 8	399 399	11.261 11.712	93.193 94.416	36.749 36.097		40.96 42.62	7 6
ATOM	10372	CB	GLN C 8		11.332	95.630	36.950	1.00	41.92	6
ATOM	10374	CG		399	9.883	96.045	36.921	1.00	46.22	6
MOTA	10375	CD	GLN C 8		9.617	97.280	37.768	1.00	48.59	6
ATOM	10376 10377	OE1 NE2	GLN C 8	399 399	9.692 9.311	97.234 98.395	38.992 37.111	1.00	49.74 50.31	8 7
ATOM ATOM	10377	C		399 399	13.211	94.523	35.837		41.70	6
ATOM	10379	0	GLN C 8		14.030	94.068	36.633	1.00	40.67	8
ATOM	10380	N	ARG C S		13.564	95.135	34.714	1.00	34.30	7
ATOM	10381	CA	ARG C S		14.963	95.406	34.410		34.45	6
MOTA MOTA	10382 10383	CB CG	ARG C S		15.275 15.347	95.093 93.590	32.936 32.616	1.00	69.44 72.22	6 6
ATOM	10383	CD		900	16.080	93.265	31.293	1.00	74.51	6
ATOM	10385	NE	ARG C		15.222	93.302	30.102	1.00	77.19	7
MOTA	10386	CZ		900	15.629	92.999	28.867	1.00	79.00	6
ATOM	10387	NH1	ARG C S		16.886	92.636	28.640	1.00	79.20	7 7
ATOM ATOM	10388 10389	NH2 C		900 900	14.779 15.064	93.043 96.927	27.850 34.729	1.00	80.28 32.73	6
ATOM	10390	Õ		900	14.042	97.616	34.797	1.00	31.77	8
ATOM	10391	N	TYR C 9		16.256	97.467	34.959	1.00	28.86	7
ATOM	10392	CA	TYR C S		16.333	98.884	35.299		27.06	6
MOTA MOTA	10393 10394	CB CG	TYR C 9		16.461 15.344	99.057 98.445	36.816 37.637		51.17 54.33	6 6
ATOM	10394	CD1			15.087	97.082	37.587		56.21	6
ATOM	10396	CE1	TYR C 9		14.067	96.511	38.332		56.58	6
MOTA	10397	CD2	TYR C 9		14.546	99.232	38.469		54.81	6
ATOM	10398	CE2	TYR C S		13.519	98.667	39.227		55.85	6 6
ATOM	10399 10400	CZ	TYR C 9		13.287 12.266	97.303 96.719	39.146 39.850		56.44 57.80	8
MOTA	10401	C	TYR C 9		17.463	99.650	34.627		25.11	6
MOTA	10402	0	TYR C 9	901	18.541	99.111	34.388		23.97	8
ATOM	10403	N	ILE C 9		17.194	100.922	34.337		36.72	7
MOTA MOTA	10404 10405	CA CB	ILE C 9		18.157	101.815 102.405	33.702 32.381		35.73 35.77	6 6
ATOM	10405	CG2	ILE C S			103.585	31.962		36.26	6
ATOM	10407	CG1				101.365	31.266		37.30	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10408 10409 10410 10411 10412 10413 10414 10415 10415 10415 10416 10417 10418 10422 10422 10422 10422 10422 10422 10423 10433 10433 10433 10433 10433 10433 10433 10444 10445 1045 10	CONCACACACACACACACACACACACACACACACACACAC	CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	902 903 903 903 903 900 900 900 900 900 900	18.524 17.849 19.607 20.119 20.228 21.452 21.491 22.489 21.552 22.376 21.655 23.842 23.516 25.077 26.218 27.5094	106.940 105.557 108.269 109.228 108.382 109.659 110.618 110.307 109.597 109.901 109.341 110.283 111.508 109.467 110.044 110.455 111.511 111.485 112.365 109.192 108.536 109.224 108.485 107.184 106.739 106.561 105.320 104.359 105.684 105.228	31.613 34.637 35.331 37.698 36.320 36.320 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 36.3220 37.3	1.00 40.87 1.00 35.26 1.00 35.12 1.00 31.96 1.00 30.93 1.00 34.74 1.00 35.86 1.00 29.29 1.00 28.82 1.00 60.94 1.00 13.87 1.00 60.49 1.00 14.25 1.00 59.70 1.00 60.46 1.00 15.62 1.00 13.87 1.00 31.57 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 32.36 1.00 44.33 1.00 45.63 1.00 45.63 1.00 45.63 1.00 45.63 1.00 45.63 1.00 45.63 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87	6876686876666876666876666876668766688687668876688
MOTA	10456		ALA C	909	19.234	104.359	40.380	1.00 19.25	5 6
ATOM	10458	N	THR C			105.226	43.072	1.00 13.87	
ATOM	10455	CA	THR C		18.258		44.419	1.00 25.35	
ATOM	10461	CB	THR C			108.374	44.686	1.00 54.99	
ATOM	10462	OG1			17.878	109.145	43.488	1.00 58.09	
MOTA	10463	CG2				109.021	45.769	1.00 57.49	9 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10464 10465 10466 10466 10467 10467 10471 10471 10471 10477 10477 10477 10477 10477 10481 10483 10488 10488 10489 10499 10499 10499 10499 1050 1050 1050 1051 1051 1051 1051 10	CONCABCCOCCONCABCCCCCCCCCCCCCCCCCCCCCCCC	ILE C 914 ILE C 915 LYS C 916 GLU C 916	17.705 106.089 16.551 105.674 18.553 105.856 18.234 105.012 19.106 105.406 19.172 104.352 20.208 104.664 21.356 104.926 19.874 104.646 16.768 104.981 16.223 103.909 16.109 106.148 16.627 107.502 14.699 106.219 14.478 107.710 15.356 108.298 13.778 105.631 12.792 104.965 14.099 105.895 13.328 105.373 13.897 105.898 13.359 107.257 14.261 108.011 14.766 107.397 14.450 109.232 13.431 103.854 12.441 103.133 14.643 103.371 14.879 101.940 16.361 101.663 16.643 100.161 17.248 102.406 18.680 102.473 13.967 101.447 13.289 100.437 13.947 102.182 13.097 101.833 13.162 102.919 14.537 103.087 14.996 101.819 16.163 102.067 17.487 102.182 13.097 101.833 13.162 102.919 14.537 103.087 14.996 101.819 16.163 102.067 17.487 102.423 11.658 101.680 11.149 102.689 9.787 102.597 9.456 103.776 8.606 104.700 6.765 105.359 9.697 101.301	45.4899742255948950275934473356425542553140333425665522232737388947345.45.7727899344443399335345545.7727899465.33993345545.7727899465.33993345545.772788955522388445.3399355522388445.33993535522388445.33993524888955523888445.33993524888955523888445.339935248888955523888445.339935248888955523888445.339935248888955523888445.339935248888955523888445.339935248888955523888445.3399352488888955523888445.3399352488888955523888445.33993524888888888888888888888888888888888888	1.00 26.11 1.00 26.89 1.00 42.54 1.00 45.45 1.00 66.31 1.00 66.82 1.00 68.96 1.00 45.59 1.00 47.49 1.00 16.94 1.00 32.60 1.00 17.33 1.00 32.27 1.00 32.01 1.00 18.58 1.00 40.96 1.00 40.96 1.00 42.81 1.00 69.38 1.00 77.79 1.00 79.14 1.00 79.35 1.00 42.98 1.00 43.19 1.00 35.51 1.00 43.19 1.00 35.51 1.00 43.19 1.00 35.51 1.00 14.77 1.00 35.85 1.00 43.87 1.00 43.48 1.00 45.95 1.00 45.95 1.00 45.43 1.00 45.95 1.00 45.43 1.00 45.95 1.00 45.43 1.00 45.43	68766668868766668766668868766666876666876666876668868
ATOM ATOM	10513 10514	OE1 OE2	GLU C 916 GLU C 916	8.606 104.700 6.765 105.359	43.395 44.399	1.00102.44 1.00103.28	8 8
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10576 10577 10578 10579 10581 10582 10583 105884 1055884 1055889 105599 105599 105599 105599 105599 105600 106605 106606 106607 106606 106610 106610 106610 106611 106613 106621 106621 106623 106626 106626	CD2 C O N CA CB CC C C O N C C C C C C C C C C C C C C	ARG C 929 ARG C 929 GLN C 930	4.358 4.357 3.906 5.637 6.569 7.946 8.714 8.926 9.171 9.008 5.810 10.588 5.857 4.920 4.769 3.649 7.166 5.945 5.169 7.166 7.166 7.1645 7	93.454 89.567 88.442 89.877 88.867 89.476 88.723 87.343 86.624 89.372 88.327 88.327 89.243 89.3121 89.243 89.513 89.513 89.513 89.513 89.513 89.513 89.57 87.577 85.777 85.856 85.762 84.939 84.813 85.388 85.762 84.813 85.388 85.762 85.327	$\begin{array}{c} 45, \\ 718 \\ 47, \\ 499 \\ 647, \\ 489, \\ 470, \\ 489, \\ 470, \\ 489, \\ 470, \\ 489, \\$	1.00 38.41 1.00 47.08 1.00 46.92 1.00 48.13 1.00 49.10 1.00 49.73 1.00 50.22 1.00 50.15 1.00 50.15 1.00 50.35 1.00 49.43 1.00 49.62 1.00 70.22 1.00 73.05 1.00 49.63 1.00 49.65 1.00 49.65 1.00 49.63 1.00 49.65 1.00 50.08 1.00 50.08 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 50.98 1.00 76.44 1.00 51.62 1.00 53.67 1.00 53.67 1.00 59.07 1.00 62.02 1.00171.68 1.00175.69 1.00175.69 1.00175.33 1.00175.69 1.00175.69 1.00175.59 1.00106.10 1.00106.10 1.00106.46 1.00 78.07 1.00 77.62 1.00121.34	668766666668887666666666876687666676876667677687
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10623 10624 10625 10626 10627 10628 10629 10630	NH2 C O N CA CB CG CD	ARG C 929 ARG C 929 ARG C 930 GLN C 930 GLN C 930 GLN C 930 GLN C 930	8.508 0.679 0.012 0.182 -1.207 -1.381 -0.426 -0.246	85.927 84.422 83.402 85.639 85.851 87.300 87.669 89.163	55.451 52.577 52.746 52.713 53.055 53.500 54.638 54.808	1.00106.46 1.00 78.07 1.00 77.62 1.00121.34 1.00122.36 1.00 77.50 1.00 78.01 1.00 77.89	7 6 8 7 6 6 6
MOTA	10631	OE1	GLN C 930	0.218	89.850	53.899	1.00 78.54	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10633 10633 10633 10633 10633 10633 10633 10663 10663 10664 10664 10664 10664 10665 10665 10665 10665 10665 10665 10666 10666 10666 10666 10666 10667 10667 10667 10667 10667 10667 10667 10667 10667 10667 10667 10667 10667 10667 10667 10668 10688	OD2 C O N CA	GLU C 932 GLU C 933 GLY C 933 GLY C 933 GLY C 933 PHE C 934 PHE C 935 GLY C 936 VAL C 937 ASP C 937	-0.608 -2.028 -3.102 -1.483 -2.126 -2.051 -0.632 -0.632 -1.658 -1.658 -1.421 -1.071 -0.083 1.344 0.860 2.238 1.344 0.860 2.763 3.503 4.703 5.643 6.152 5.643 6.152 6.888 7.963 8.763 8.763	8 85.528 86.621 86.621 86.621 87.6652 88.1.7652 88.1.6652 88.1.266 88.166 88.16	55.878 51.5784 49.784 49.7851 49.7485 49.7551 49.7551 49.7551 49.7551 49.7551 51.1975 51.19	1.00 77.85 1.00122.93 1.00124.12 1.00136.42 1.00136.00 1.00136.17 1.00 96.18 1.00 94.52 1.00 76.46 1.00 76.62 1.00 76.70 1.00 76.53 1.00 93.61 1.00 81.73 1.00 69.68 1.00 69.73 1.00 69.68 1.00 69.73 1.00 69.66 1.00 69.73 1.00 69.66 1.00 81.73 1.00 69.66 1.00 69.73 1.00 69.66 1.00 69.73 1.00 34.76 1.00 34.92 1.00 37.19 1.00 37.19 1.00 69.34 1.00 69.34 1.00 70.00 1.00 69.42 1.00 36.14 1.00 34.12 1.00 49.63 1.00 51.96	76876687666886876687666666668766876666886876
ATOM ATOM ATOM	10680 10681 10682 10683 10684 10685 10686	O N CA CB CG CD	ASP C 937 ASP C 937 LYS C 938 LYS C 938 LYS C 938 LYS C 938 LYS C 938	7.950 8.763 7.833 8.638 8.492 7.033 6.884	81.726 82.647 80.817 80.826 79.480 79.154 77.942	62.683 62.704 63.643 64.848 65.567 65.921 66.850	1.00 36.14 1.00 34.12 1.00 49.63 1.00 51.96 1.00 78.51 1.00 79.62 1.00 80.06	6 8 7 6 6 6
ATOM	10687	CE	LYS C 938	7.147	78.286	68.328	1.00 80.47	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10688 10689 10690 10691 10692 10693 10694 10695 10696	NZ C O N CA CB CG CD NE CZ	LYS C LYS C ARG C ARG C ARG C ARG C ARG C ARG C	938 938 939 939 939 939 939	6.1 10.7 10.5 11.9 12.4 12.3 11.8 12.5	12 99 95 84 58 90 10	79.166 81.196 81.510 81.186 81.546 80.847 79.357 78.850 77.699 77.165	68.954 64.660 65.637 63.419 63.135 61.873 61.949 60.674 60.181 58.996	1.00 81.04 1.00 53.10 1.00 53.64 1.00 54.14 1.00 54.30 1.00 51.97 1.00 53.03 1.00 54.13 1.00 54.99 1.00 57.20	7 6 8 7 6 6 6 6 7 6
ATOM ATOM	10698 10699	NH1 NH2	ARG C	939	11.3	70	77.695 76.110	58.213 58.596	1.00 57.20 1.00 57.62 1.00 59.96	7 7
MOTA	10700	C	ARG C	939	12.1	.18	83.054	62.941	1.00 54.06	6
MOTA MOTA	10701 10702	O N	ARG C		12.9 11.3		83.706 83.596	63.576 62.042	1.00 55.43 1.00 20.90	8 7
ATOM	10703	CA	GLU C		11.3		85.022	61.775	1.00 20.56	6
ATOM	10704	CB		940	10.3		85.363	60.676	1.00 46.34	6
ATOM ATOM	10705 10706	CG CD	GLU C	940 940	10.3 9.4		84.402 84.787	59.500 58.372	1.00 44.16 1.00 41.54	6 6
ATOM	10707	OE1	GLU C		9.7		85.691	57.599	1.00 41.54	8
ATOM	10708	OE2	GLU C		8.3	35	84.186	58.258	1.00 40.41	8
ATOM	10709	C	GLU C		10.9		85.745	63.076	1.00 21.44	6
ATOM ATOM	10710 10711	O N	GLU C		11.1 10.3		86.942 85.027	63.226 64.021	1.00 20.60 1.00 85.59	8 7
ATOM	10711	CA		941	10.3		85.669	65.282	1.00 83.39	6
ATOM	10713	CB		941	9.0		84.824	66.129	1.00 88.47	6
MOTA	10714	CG	LYS C		7.6		85.103	65.821	1.00 89.73	6
MOTA	10715	CD	LYS C		6.7		85.026	67.065	1.00 91.30	6
MOTA MOTA	10716 10717	CE NZ	LYS C	941	5.3 4.6		85.615 85.825	66.795 68.048	1.00 92.39 1.00 94.10	6 7
ATOM	10718	C	LYS C		11.3		85.836	65.988	1.00 94.10	6
ATOM	10719	Ö	LYS C		11.7		86.940	66.410	1.00 90.48	8
MOTA	10720	N	GLU C		12.1		84.743	66.097	1.00 54.45	7
MOTA	10721	CA	GLU C		13.4		84.797	66.742	1.00 53.66	6
MOTA MOTA	10722 10723	CB CG	GLU C		14.1 13.6		83.497 82.318	66.536 67.296	1.00113.49 1.00117.32	6 6
ATOM	10723	CD	GLU C		14.7		81.323	67.680	1.00117.32	6
ATOM	10725	OE1	GLU C		15.4		80.878	66.790	1.00120.23	8
MOTA	10726	OE2	GLU C		14.8		80.987	68.878	1.00120.12	8
MOTA	10727	C	GLU C		14.2		85.942	66.154	1.00 52.80	6
MOTA MOTA	10728 10729	O N	GLU C VAL C		$14.6 \\ 14.4$		86.846 85.903	66.871 64.839	1.00 53.14 1.00 65.20	8 7
ATOM	10730	CA	VAL C		15.1		86.935	64.162	1.00 63.20	6
MOTA	10731	CB	VAL C		15.1		86.765	62.640	1.00 61.57	6
MOTA	10732		VAL C		15.7		87.945	61.941	1.00 61.54	6
ATOM	10733	CG2			15.8		85.478	62.252	1.00 61.38	6
MOTA MOTA	10734 10735	C O	VAL C		14.7 15.2		88.328 88.893	64.567 65.480	1.00 62.96 1.00 63.98	6 8
ATOM	10736	N	LEU C		13.7		88.873	63.906	1.00 03.30	7
MOTA	10737	CA	LEU C		13.2		90.211	64.224	1.00 13.87	6
ATOM	10738	CB	LEU C		11.6		90.287	64.018	1.00 46.25	6
${ t ATOM}$	10739 10740	CG CD1	LEU C		11.1		90.011	62.642	1.00 47.00	6
ATOM	10740	CD1 CD2			9.5 11.4		89.914 91.105	62.772 61.674	1.00 48.47 1.00 47.73	6 6
ATOM	10742	C	LEU C		13.5		90.618	65.657	1.00 13.87	6
MOTA	10743	0	LEU C		14.1		91.625	65.909	1.00 13.87	8

ATOM ATOM	10744 10745	N CA CB	ALA C ALA C ALA C	945	13.018 13.224 12.505	89.825 90.105 89.050	66.600 68.012 68.857	1.00 31.01 1.00 31.66 1.00 40.26	7 6 6
ATOM ATOM	$10746 \\ 10747$	CP	ALA C		14.703	90.139	68.371	1.00 32.39	6
ATOM	10748	Õ	ALA C		15.067	90.102	69.542	1.00 31.76	8
ATOM	10749	N	ARG C		15.550	90.209	67.356	1.00 27.49	7
ATOM	10750	CA	ARG C		17.002	90.232	67.528	1.00 29.39	6
ATOM	10751	CB	ARG C		17.605	88.875	67.147	1.00 67.26	6
ATOM	10752	CG		946	19.133	88.814	67.154	1.00 69.40 1.00 70.98	6 6
ATOM	10753	CD	ARG C		19.618 21.073	87.450 87.322	66.666 66.608	1.00 70.98	7
ATOM ATOM	10754 10755	NE CZ	ARG C		21.887	88.201	66.030	1.00 75.59	6
ATOM	10756	NH1	ARG C		21.398	89.292	65.464	1.00 78.24	7
ATOM	10757	NH2	ARG C		23.193	87.972	65.986	1.00 76.01	7
ATOM	10758	C	ARG C		17.558	91.298	66.613	1.00 30.19	6
ATOM	10759	0	ARG C	946	18.556	91.915	66.914	1.00 30.17	8
MOTA	10760	N	ALA C		16.903	91.491	65.480	1.00 46.59	7
MOTA	10761	CA	ALA C		17.327	92.494	64.533	1.00 49.44 1.00 95.40	6
ATOM	10762	CB		947	16.593 16.963	92.324 93.811	63.218 65.167	1.00 95.40	6 6
MOTA MOTA	10763 10764	C O	ALA C ALA C		17.796	94.709	65.275	1.00 51.52	8
ATOM	10765	N	GLU C		15.714	93.922	65.608	1.00 60.56	7
ATOM	10766	CA	GLU C		15.259	95.158	66.241	1.00 61.87	6
ATOM	10767	СВ	GLU C		13.788	95.059	66.681	1.00 79.09	6
MOTA	10768	CG	GLU C		13.535	94.385	68.026	1.00 79.19	6
ATOM	10769	CD	GLU C		12.111	94.612	68.520	1.00 79.55	6
ATOM	10770	OE1			11.166	94.043	67.933	1.00 78.09 1.00 80.91	8 8
MOTA	10771	OE2	GLU C GLU C		11.939 16.152	95.375 95.437	69.492 67.441	1.00 60.91	6
${f ATOM}$	10772 10773	С О	GLU C		16.132	96.593	67.750	1.00 63.17	8
ATOM	10773	N	LYS C		16.582	94.370	68.111	1.00 43.00	7
MOTA	10775	CA	LYS C		17.469	94.516	69.250	1.00 44.20	6
MOTA	10776	CB	LYS C	949	17.738	93.164	69.915	1.00150.66	6
MOTA	10777	CG	LYS C		16.517	92.557	70.571	1.00153.51	6
MOTA	10778	CD		949	16.856	91.962	71.925	1.00155.35 1.00157.45	6 6
MOTA	10779	CE	LYS C		15.590 15.878	91.583 91.193	72.675 74.081	1.00157.45	7
MOTA MOTA	10780 10781	NZ C	LYS C		18.763	95.109	68.724	1.00130.33	6
ATOM	10782	0	LYS C		19.415	95.884	69.404	1.00 45.20	8
MOTA	10783	N	LEU C		19.134	94.737	67.503	1.00 48.12	7
ATOM	10784	CA	LEU C	950	20.341	95.261	66.889	1.00 48.09	6
MOTA	10785	СВ	LEU C		20.821	94.377	65.734	1.00 62.51	6
MOTA	10786	CG	LEU C		21.093	92.870	65.817	1.00 64.28	6
MOTA	10787	CD1			21.011	92.297 92.568	64.415 66.436	1.00 64.42 1.00 64.51	6 6
ATOM	10788	CD2	LEU C		22.451 19.855	96.554	66.304	1.00 64.31	6
ATOM	10789 10790	C O	LEU C		20.254	96.917	65.224	1.00 49.44	8
ATOM	10791	N	GLY C		18.948	97.230	66.994	1.00 44.24	7
ATOM	10792	CA	GLY C		18.428	98.490	66.486	1.00 44.50	6
MOTA	10793	С	GLY C		18.345	98.522	64.973	1.00 44.20	6
ATOM	10794	0	GLY C		18.700	99.498	64.316	1.00 45.36	8
ATOM	10795	N	LEU C		17.860	97.433	64.412	1.00 70.80	7 6
MOTA	10796	CA	LEU C		17.760 18.164	97.328 95.925	62.976 62.559	1.00 70.81 1.00 36.46	6
ATOM ATOM	10797 10798	CB CG	LEU C		18.891	95.923	61.242	1.00 36.40	6
ATOM	10799	CD1			20.214	96.528	61.332	1.00 37.99	6
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10800 10801 10802 10803 10804 10805 10806 10807	CG2 C	LEU C 95 LEU C 95 VAL C 95	2 16.336 2 16.099 3 15.392 3 13.988 3 13.307 3 11.856 3 13.974 3 13.346	94.354 97.600 98.135 97.223 97.393 96.031 96.192 95.179 98.221	60.949 62.535 61.456 63.385 63.091 63.028 62.713 61.985 64.185	1.00 36.94 1.00 70.39 1.00 70.61 1.00 62.37 1.00 62.11 1.00 71.67 1.00 73.42 1.00 62.31	668766666
ATOM ATOM ATOM	10809 10810 10811	O N CA	VAL C 95 SER C 95 SER C 95	4 12.254	98.240 98.902 99.740	65.317 63.839 64.784	1.00 62.52 1.00 75.89 1.00 76.21	8 7 6
ATOM	10812 10813	CB OG	SER C 95 SER C 95		100.647 101.489	64.038 63.118	1.00121.45 1.00122.82	6 8
${f MOTA}$	10813	C	SER C 95		98.880	65.778	1.00 76.00	6
ATOM	10815	0	SER C 95		98.238	65.422	1.00 76.67	8
MOTA	10816 10817	N	PRO C 95		98.867 99.785	67.046 67.661	1.00 47.70 1.00 36.08	7 6
ATOM ATOM	10817	CD CA	PRO C 95		98.069	68.070	1.00 30.00	6
ATOM	10819	СВ	PRO C 95		98.275	69.285	1.00 35.83	6
ATOM	10820	CG	PRO C 95		99.689	69.128	1.00 36.13	6
ATOM	10821 10822	C	PRO C 95		98.648 99.813	68.247 67.942	1.00 48.20 1.00 48.98	6 8
ATOM ATOM	10823	O N	GLY C 95		97.852	68.720	1.00 46.50	7
ATOM	10824	CA	GLY C 95		98.386	68.889	1.00 87.54	6
MOTA	10825	C	GLY C 95		98.058	67.694	1.00 87.54	6
ATOM	10826	0	GLY C 95		97.956	67.818	1.00 88.81	8
ATOM ATOM	10827 10828	N CA	LYS C 95		97.914 97.554	66.525 65.352	1.00 49.31 1.00 49.18	7 6
ATOM	10828	CB	LYS C 95		97.823	64.057	1.00111.66	6
ATOM	10830	ĊĠ	LYS C 95		99.307	63.767	1.00114.51	6
MOTA	10831	CD	LYS C 95		99.596	62.310	1.00115.70	6
MOTA	10832	CE	LYS C 95		101.105 101.456	62.052 60.615	1.00116.34 1.00116.73	6 7
MOTA MOTA	10833 10834	NZ C	LYS C 95		96.071	65.495	1.00116.73	6
MOTA	10835	0	LYS C 95		95.411	66.397	1.00 48.18	8
MOTA	10836	N	SER C 95		95.548	64.624	1.00 49.36	7
MOTA	10837	CA	SER C 95		94.140	64.682	1.00 48.83	6
MOTA	10838	CB	SER C 95		93.918 93.957	63.894 62.515	1.00 39.20 1.00 39.36	6 8
MOTA MOTA	10839 10840	OG C	SER C 95			64.047	1.00 39.30	6
MOTA	10841	Ö	SER C 95		93.854	63.509	1.00 48.45	8
MOTA	10842	N	PRO C 95	9 5.278	91.978	64.099	1.00 33.17	7
ATOM	10843	CD	PRO C 95		91.077	64.519	1.00 60.72	6 6
MOTA MOTA	10844 10845	CA CB	PRO C 95		91.224 89.785	63.460 63.756	1.00 32.55 1.00 60.49	6
ATOM	10845	CB	PRO C 95		89.844	63.691	1.00 60.13	6
ATOM	10847	C	PRO C 95	9 6.273	91.549	61.969	1.00 32.42	6
MOTA	10848	0	PRO C 95		92.108	61.382	1.00 33.33	8
MOTA	10849	N	GLU C 96		91.211	61.371 59.967	1.00 28.89 1.00 28.90	7 6
MOTA MOTA	10850 10851	CA CB	GLU C 96		91.476 91.334	59.651	1.00 26.30	6
ATOM	10852	CG	GLU C 96		91.816	58.276	1.00 80.08	6
ATOM	10853	CD	GLU C 96		91.448	57.930	1.00 82.04	6
MOTA	10854	OE1			91.992	56.939	1.00 83.71	8 8
ATOM	10855	OE2	GLU C 96	0 1.042	90.609	58.649	1.00 83.11	0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10856 10857 10858 10859 10860 10861 10862 10863 10864 10865 10866 10867 108873 10877 10877 10877 10877 10878 108871 108871 108871 108871 108881 108881 108881 108881 108881 108881 108881 108881 108881 108891 108991 108991 108991 108901 108901 109001 109001 109001 109001 109006	C O N CAB CGD 12 C O N C C C C C C O N C C C C C C C C C	GLU C 965 GLU C 965 GLU C 966 LEU C 966 LEU C 966 LEU C 966	5.432 6.114 5.098 5.534 4.912 3.405 2.877 3.203 2.136 7.051 7.615 7.697 9.148 9.525 8.944 9.128 10.219 8.056 9.840 11.014 9.095 9.622 8.699 9.082 10.346 9.779 10.871 8.712 8.823 7.530 6.712 5.797 4.535 9.911 10.628 10.964 12.015 11.044 10.964 12.015 11.047 12.357 13.869 13.869 13.952 15.251 15.997	92.859 93.886 95.257 96.441 97.558 96.445 97.398 97.398 97.398 97.398 94.5704 93.455 94.5704 93.455 94.5704 93.455 94.5704 93.455 94.5704 93.455 94.5704 93.455 93.455 93.455 93.455 93.455 94.576 95.766 97.458 97.	59.558 58.551 60.338 60.032 61.009 60.885 61.773 61.515 62.732 60.088 59.422 61.057 62.358 63.605 64.870 65.4315 59.859 59.157 57.980 57.533 57.947 57.215 59.437 57.5215 59.437 57.5215 59.437 57.5215 59.437 57.5284 53.961 54.027 55.888 55.8840 54.987 57.598	1.00 27.63 1.00 27.27 1.00 43.39 1.00128.06 1.00131.38 1.00132.41 1.00132.88 1.00132.88 1.00 41.36 1.00 40.70 1.00 54.22 1.00 52.66 1.00 77.86 1.00 79.19 1.00 79.81 1.00 79.30 1.00 50.46 1.00 79.30 1.00 50.46 1.00 47.74 1.00 29.07 1.00 27.38 1.00 27.54 1.00 27.54 1.00 29.07 1.00 27.38 1.00 27.54 1.00 25.57 1.00 46.95 1.00 47.63 1.00 52.34 1.00 33.49 1.00 34.27 1.00 34.10 1.00 34.27 1.00 34.10 1.00 34.27 1.00 34.10 1.00 34.27 1.00 34.10 1.00 34.27 1.00 34.32 1.00 52.76 1.00 52.71 1.00 52.71 1.00 52.71 1.00 52.71 1.00 52.71 1.00 52.71 1.00 52.71 1.00 52.60 1.00 37.42 1.00 35.38 1.00 17.23 1.00 13.87 1.00 13.87	6876666886876668768766668766666676876666886876666
ATOM ATOM ATOM	10903 10904 10905	CA CB CG	LEU C 966 LEU C 966 LEU C 966 LEU C 966	13.869 13.952 15.251	94.749 93.571 92.975	57.370 58.358 58.927	1.00 35.38 1.00 17.23 1.00 13.87	6 6 6
ATOM ATOM ATOM	10909 10910 10911	O N CA	LEU C 966 PHE C 967 PHE C 967	14.823 13.108 13.112	93.408 94.730 94.285	55.600 55.000 53.589	1.00 37.76 1.00 58.31 1.00 58.86	8 7 6

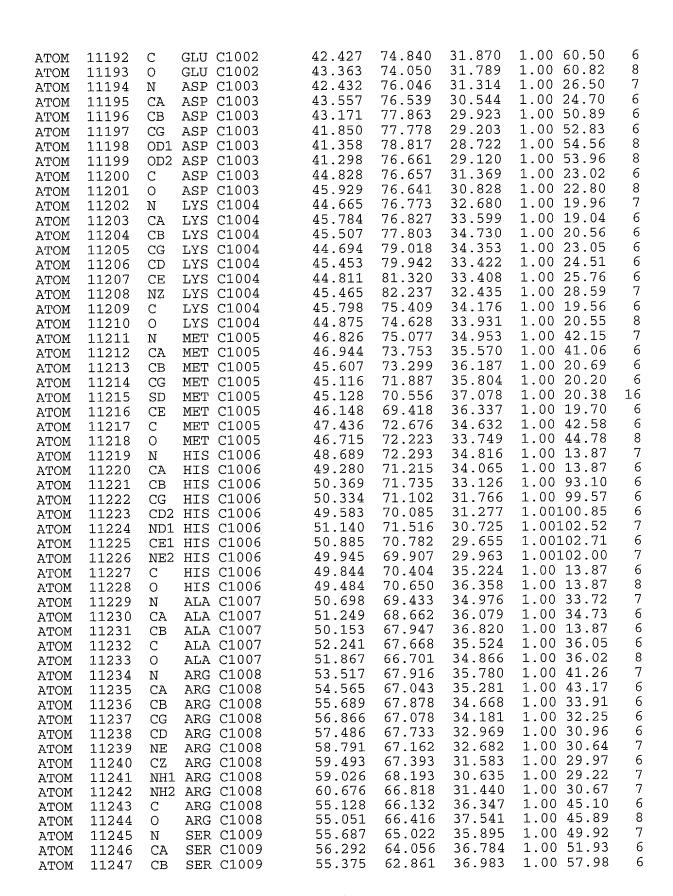
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	10968 10969 10970 10971 10972 10973 10974 10975 10977 10978 109981 10988 10988 10988 10988 10988 10988 10999 10999 10999 10999 10999 10999 10999 10999 10999 10999 10999 11000 11001 11002 11003	N CA CB CG11 CE1 CD2 CZ OH C O N CA CB CG OD1 CA CB CG ON CA CC ON CA CC CD NH1 NH2 CON	TYR C C C C C C C C C C C C C C C C C C C	975 975 975 975 975 975 975 976 976 976 976 977 977 978 978 978 978 978 978 978 978	16.890 17.238 16.149 14.769 13.834 12.547 14.378 13.101 12.188 10.893 18.566 19.305 18.854 20.084 21.166 22.472 22.873 23.110 19.751 19.877 19.318 18.939 19.825 19.477 20.969 21.967 23.320 24.531 25.659 26.825 27.796 27.726 28.838 21.645 21.592 21.428	81.592 80.315 79.325 79.820 80.059 80.421 79.974 80.338 80.550 80.819 79.796 80.501 78.546 77.886 78.029 77.321 77.346 76.752 76.426 75.596 76.134 74.784 73.665 74.063 73.164 73.874 73.079 74.056 73.873 74.771 75.908 74.531 72.756 71.569 73.743	55.965 56.548 56.532 55.538 57.852 57.852 57.852 57.539 57.539 57.539 56.374 55.374 57.539 56.680 57.539 56.680 57.530 56.690 57.530	1.00 70.40 1.00 68.80 1.00 27.41 1.00 25.12 1.00 24.63 1.00 22.23 1.00 23.45 1.00 21.24 1.00 21.50 1.00 22.82 1.00 69.49 1.00 70.73 1.00 19.13 1.00 19.58 1.00 77.17 1.00 79.95 1.00 82.04 1.00 80.48 1.00 19.50 1.00 19.09 1.00 14.07 1.00 14.99 1.00 16.05 1.00 13.87 1.00 40.37 1.00 44.82 1.00103.56 1.00107.10 1.00109.68 1.00112.29 1.00114.08 1.00113.40 1.00115.71 1.00 45.91 1.00 46.71 1.00 85.10	7666666686876668868766876667677687
MOTA	11002	0	ARG C	978	21.592	71.569	57.379	1.00 46.71	8
ATOM	11003	CA	THR C		21.145	73.743	59.340	1.00 87.17	6
MOTA	11005	CB	THR C		21.722	74.600	60.241 59.949	1.00202.64 1.00204.66	6 8
MOTA MOTA	11006 11007	OG1 CG2	THR C		23.112 21.574	74.788 74.228	61.710	1.00204.88	6
ATOM	11008	C	THR C		19.661	73.387	59.622	1.00 86.86	6
MOTA	11009	0	THR C	979	19.244	72.777	60.603	1.00 88.03	8
ATOM	11010	N	GLY C		18.862	73.991	58.757 58.960	1.00 45.86 1.00 45.10	7 6
MOTA ATOM	11011 11012	CA C	GLY C		17.434 17.004	73.959 75.168	59.759	1.00 43.10	6
ATOM	11012	Ö	GLY C		15.905	75.688	59.575	1.00 45.72	8
MOTA	11014	N	GLU C	981	17.880	75.619	60.651	1.00 57.88	7
ATOM	11015	CA	GLU C		17.603	76.777	61.489	1.00 56.67	6
ATOM	11016 11017	CB CG	GLU C		18.519 18.151	76.731 75.600	62.713 63.676	1.00 99.07 1.00105.10	6 6
ATOM ATOM	11017	CD	GLU C		19.305	74.649	63.981	1.00103.10	6
ATOM	11019	OE1	GLU C		20.321	75.095	64.560	1.00112.69	8
ATOM	11020	OE2	GLU C		19.192	73.448	63.649	1.00110.76	8
ATOM	11021	C	GLU C		17.778	78.079	60.697	1.00 54.05 1.00 55.73	6 8
ATOM ATOM	11022 11023	O N	GLU C PRO C		17.895 17.749	78.055 79.236	59.470 61.377	1.00 33.73	o 7
M I OII	11072	TA	INO C	702	11.147	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01.577	1.00 32.30	,

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11024 11025 11026 11027 11028 11029 11030 11031 11033 11033 11033 11034 11043 11044 11045 11046 11045 11055 11055 11055 11055 11055 11060 11061 11062 11063 11063 11063 11063 11063 11063 11065 11065 11067 11069 11072 11072	CD CA CB CG CD1 CE2 CON CA CB CG CD1 CA CB CGC CD1 CB	PHE C C C C C C C C C C C C C C C C C C C	982 982 982 982 983 983 983 983 983 983 983 983 983 983	17.006 17.918 16.764 16.787 19.254 20.107 19.423 20.628 21.142 22.035 22.868 23.664 23.673 19.869 20.502 20.237 21.034 22.491 22.957 22.263 24.012 20.664 21.764 19.791 20.117 19.962 20.641 19.791 20.641	79.485 80.492 81.331 80.998 81.201 80.765 82.308 83.107 81.431 80.749 82.513 82.513 82.697 81.4349 85.368 84.346 85.368 85.366 85.365 86.6617 87.974 89.587 89.587 90.778 89.587	62.627 60.6367 61.147 62.851 60.851 60.277 58.901 58.905 58.259 58.259 56.2831 58.259 56.2831 58.259 56.2831 58.439 56.2831 60.551 60.551 60.551 60.436 6	1.00 44.67 1.00 29.63 1.00 43.45 1.00 43.65 1.00 25.71 1.00 25.17 1.00 31.10 1.00 28.85 1.00 32.18 1.00 31.27 1.00 29.66 1.00 31.41 1.00 31.41 1.00 31.66 1.00 37.40 1.00 37.40 1.00 36.01 1.00 55.68 1.00 59.64 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 62.38 1.00 13.85 1.00 14.69 1.00 16.80	66666668766688687668766668766687666
ATOM	11070	CA	VAL C	988	20.786	91.234	52.525	1.00 49.47	7 6
									. 6
ATOM	11072	CG1			21.424	92.994	50.839	1.00 15.58	3 6
MOTA	11074	C	VAL C		20.930	90.312	51.302	1.00 50.17	7 6
MOTA	11075	0	VAL C	988	21.991	89.747	51.053	1.00 52.27	7 8
ATOM	11076	N	VAL C		19.845	90.175	50.544	1.00 24.68	
MOTA	11077	CA	VAL C		19.807	89.308	49.368	1.00 25.07	
MOTA	11078	CB	VAL C		18.705	88.229	49.554	1.00 14.32	
MOTA	11079	CG1	VAL C	989	18.403	87.536	48.255	1.00 17.13	5 6

ATOM 11101 CE MET C 992 26.016 91.680 44.760 1.00 15.97 6 ATOM 11102 C MET C 992 23.791 90.771 39.831 1.00 39.94 6 ATOM 11103 0 MET C 992 22.813 91.031 39.134 1.00 40.95 8 ATOM 11104 N PHE C 993 24.921 90.283 39.341 1.00 44.24 7 ATOM 11105 CA PHE C 993 24.921 90.283 39.341 1.00 44.24 7 ATOM 11106 CB PHE C 993 24.714 91.328 37.144 1.00 27.79 6 ATOM 11107 CG PHE C 993 25.129 90.067 37.914 1.00 27.42 6 ATOM 11108 CD1 PHE C 993 26.553 92.070 35.601 1.00 27.20 6 ATOM 11109 CD2 PHE C 993 24.628 91.025 34.651 1.00 27.04 6 ATOM 11110 CE1 PHE C 993 27.081 92.258 34.330 1.00 26.20 6 ATOM 11111 CE2 PHE C 993 25.150 91.210 33.378 1.00 26.20 6 ATOM 11113 C PHE C 993 26.617 89.809 37.789 1.00 26.08 6 ATOM 11114 O PHE C 993 26.617 89.809 37.789 1.00 44.72 6 ATOM 11115 N ILE C 994 26.995 88.541 37.780 1.00 44.61 7 ATOM 11116 CA ILE C 994 28.399 88.204 37.697 1.00 43.80 6 ATOM 11118 CG2 ILE C 994 28.784 87.142 37.730 1.00 43.80 6 ATOM 11118 CG2 ILE C 994 28.784 87.142 37.737 1.00 20.66 6 ATOM 11118 CG2 ILE C 994 27.911 87.231 40.000 1.00 17.49 6 ATOM 11112 C ILE C 994 28.784 87.142 37.737 1.00 20.66 6 ATOM 11112 C ILE C 994 28.784 87.142 37.730 1.00 43.80 6 ATOM 11112 C ILE C 994 28.784 87.142 37.730 1.00 43.80 6 ATOM 11112 C ILE C 994 28.784 87.142 37.730 1.00 43.80 6 ATOM 11112 C ILE C 994 28.784 87.142 37.730 1.00 43.80 6 ATOM 11112 C ILE C 994 28.784 87.142 37.730 1.00 43.80 6 ATOM 11112 C ILE C 994 28.784 87.142 37.730 1.00 43.80 6 ATOM 11112 C ILE C 994 28.784 87.142 37.730 1.00 43.75 6 ATOM 11120 CD1 ILE C 994 28.784 87.142 37.730 1.00 43.75 6 ATOM 11122 C ILE C 994 28.221 86.688 35.846 1.00 37.58 7 ATOM 11122 C ILE C 994 28.221 86.688 35.846 1.00 37.58 7 ATOM 11124 CA MET C 995 30.322 90.428 33.981 1.00 20.56 6 ATOM 11125 CB MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16	ATOM 11101 CE MET C 992 23.791 90.771 39.831 1.00 39.94 6 ATOM 11103 O MET C 992 22.813 91.031 39.134 1.00 40.95 8 ATOM 11104 N PHE C 993 24.921 90.283 39.341 1.00 44.24 7 ATOM 11105 CA PHE C 993 24.714 91.328 37.144 1.00 44.14 6 ATOM 11107 CG PHE C 993 24.714 91.328 37.144 1.00 27.79 6 ATOM 11108 CD1 PHE C 993 26.553 92.070 35.601 1.00 27.42 6 ATOM 11109 CD2 PHE C 993 24.628 91.025 34.651 1.00 27.04 6 ATOM 11110 CE1 PHE C 993 27.081 92.258 34.330 1.00 26.20 6 ATOM 11111 CE2 PHE C 993 25.150 91.210 33.378 1.00 26.64 6 ATOM 11112 CZ PHE C 993 26.375 91.828 33.217 1.00 26.64 6 ATOM 11113 C PHE C 993 26.375 91.828 33.217 1.00 26.08 6 ATOM 11114 O PHE C 993 27.413 90.742 37.730 1.00 44.72 6 ATOM 11115 N LE C 994 26.995 88.541 37.780 1.00 44.72 6 ATOM 11116 CA LE C 994 28.399 88.204 37.697 1.00 43.80 6 ATOM 11117 CB LE C 994 28.399 88.204 37.697 1.00 43.80 6 ATOM 11118 CG2 LE C 994 28.399 88.204 37.697 1.00 43.80 6 ATOM 11112 C JLE C 994 28.784 87.142 38.737 1.00 19.13 6 ATOM 11112 C JLE C 994 28.784 87.142 38.737 1.00 19.13 6 ATOM 11112 C JLE C 994 28.784 87.142 38.737 1.00 19.13 6 ATOM 11112 C JLE C 994 28.784 87.423 38.737 1.00 17.51 6 ATOM 11120 CD1 LE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11121 C JLE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11123 N MET C 995 30.210 87.924 33.981 1.00 35.68 6 ATOM 11125 CB MET C 995 30.945 89.076 33.705 1.00 20.97 6 ATOM 11126 CG MET C 995 30.945 89.076 33.705 1.00 20.97 6	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11080 11081 11082 11083 11084 11085 11086 11087 11088 11099 11091 11092 11093 11094 11095 11096 11097 11098 11099 11099	CG2 C O N CA C O N CA CB CCB CCD OE1 NE2 C O N CA CB CCB CCB CCB CCB CCB CCB CCB CCB C	GLN C 9 MET C 9 MET C 9 MET C 9 MET C 9	89 90 90 90 91 91 91 91 91 91 91 91	19.147 19.526 19.168 19.697 19.438 20.007 20.667 19.737 20.248 19.194 17.821 17.051 16.981 16.479 21.416 21.221 22.638 23.745 25.077 26.120 27.194	87.216 90.130 91.304 89.526 90.234 89.601 88.568 90.216 89.709 89.772 89.294 88.956 89.759 87.761 90.553 91.573 90.156 90.963 90.544 91.636 91.687	50.570 48.102 48.200 46.924 45.677 44.409 44.455 43.261 41.993 40.896 41.246 39.991 39.955 41.518 40.866 41.824 41.339 41.976 41.928 43.389	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	15.03 26.60 28.55 30.67 31.43 31.89 31.21 17.81 18.72 44.96 48.05 49.34 50.17 17.99 39.09 38.59 20.30 17.71 20.68	66876687666876876666 16
ATOM 11105 CA PHE C 993	ATOM 11105 CA PHE C 993	ATOM ATOM ATOM	11101 11102 11103	CE C O	MET C 9 MET C 9 MET C 9	92 92 92	26.016 23.791 22.813	91.680 90.771 91.031	44.760 39.831 39.134	1.00 1.00 1.00	15.97 39.94 40.95	6 6 8
ATOM 11109 CD2 PHE C 993	ATOM 11109 CD2 PHE C 993	ATOM ATOM ATOM	11105 11106 11107	CA CB CG	PHE C 9 PHE C 9 PHE C 9	93 93 93	25.129 24.714 25.320	90.067 91.328 91.456	37.914 37.144 35.774	1.00 1.00 1.00	44.14 27.79 27.42	6 6 6
ATOM 11113 C PHE C 993 26.617 89.809 37.789 1.00 44.72 6 ATOM 11114 O PHE C 993 27.413 90.742 37.730 1.00 45.45 8 ATOM 11115 N ILE C 994 26.995 88.541 37.780 1.00 44.61 7 ATOM 11116 CA ILE C 994 28.399 88.204 37.697 1.00 43.80 6 ATOM 11117 CB ILE C 994 28.784 87.142 38.737 1.00 19.13 6 ATOM 11118 CG2 ILE C 994 30.207 87.334 39.090 1.00 20.66 6 ATOM 11119 CG1 ILE C 994 27.911 87.231 40.000 1.00 17.49 6 ATOM 11120 CD1 ILE C 994 27.914 88.565 40.693 1.00 17.51 6 ATOM 11121 C ILE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11122 O ILE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11123 N MET C 995 29.746 88.337 35.686 1.00 37.58 7 ATOM 11124 CA MET C 995 30.210 87.924 34.370 1.00 35.68 6 ATOM 11125 CB MET C 995 30.322 90.428 33.981 1.00 20.97 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16	ATOM 11113 C PHE C 993 26.617 89.809 37.789 1.00 44.72 6 ATOM 11114 O PHE C 993 27.413 90.742 37.730 1.00 45.45 8 ATOM 11115 N ILE C 994 26.995 88.541 37.780 1.00 44.61 7 ATOM 11116 CA ILE C 994 28.399 88.204 37.697 1.00 43.80 6 ATOM 11117 CB ILE C 994 28.784 87.142 38.737 1.00 19.13 6 ATOM 11118 CG2 ILE C 994 30.207 87.334 39.090 1.00 20.66 6 ATOM 11119 CG1 ILE C 994 27.911 87.231 40.000 1.00 17.49 6 ATOM 11120 CD1 ILE C 994 27.914 88.565 40.693 1.00 17.51 6 ATOM 11121 C ILE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11122 O ILE C 994 28.21 86.688 35.846 1.00 43.06 8 ATOM 11123 N MET C 995 29.746 88.337 35.686 1.00 37.58 7 ATOM 11124 CA MET C 995 30.210 87.924 34.370 1.00 35.68 6 ATOM 11125 CB MET C 995 30.322 90.428 33.981 1.00 20.97 6 ATOM 11126 CG MET C 995 31.466 91.803 33.705 1.00 20.97 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16 ATOM 11128 CE MET C 995 31.466 91.803 33.727 1.00 21.18 16 ATOM 11129 C MET C 995 31.466 92.311 32.174 1.00 22.42 6 ATOM 11129 C MET C 995 31.370 86.430 35.801 1.00 36.94 8 ATOM 11130 O MET C 995 31.370 86.430 35.801 1.00 36.94 8 ATOM 11131 N LYS C 996 31.753 86.198 33.609 1.00 46.96 7	ATOM ATOM ATOM	11109 11110 11111	CD2 CE1 CE2	PHE C 9 PHE C 9 PHE C 9	93 93 93	24.628 27.081 25.150	91.025 92.258 91.210	34.651 34.330 33.378	1.00 1.00 1.00	27.04 26.20 26.64	6 6 6
ATOM 11117 CB ILE C 994 28.784 87.142 38.737 1.00 19.13 6 ATOM 11118 CG2 ILE C 994 30.207 87.334 39.090 1.00 20.66 6 ATOM 11119 CG1 ILE C 994 27.911 87.231 40.000 1.00 17.49 6 ATOM 11120 CD1 ILE C 994 27.914 88.565 40.693 1.00 17.51 6 ATOM 11121 C ILE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11122 O ILE C 994 28.221 86.688 35.846 1.00 43.06 8 ATOM 11123 N MET C 995 29.746 88.337 35.686 1.00 37.58 7 ATOM 11124 CA MET C 995 30.210 87.924 34.370 1.00 35.68 6 ATOM 11125 CB MET C 995 30.945 89.076 33.705 1.00 20.97 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16	ATOM 11117 CB ILE C 994 28.784 87.142 38.737 1.00 19.13 6 ATOM 11118 CG2 ILE C 994 30.207 87.334 39.090 1.00 20.66 6 ATOM 11119 CG1 ILE C 994 27.911 87.231 40.000 1.00 17.49 6 ATOM 11120 CD1 ILE C 994 27.914 88.565 40.693 1.00 17.51 6 ATOM 11121 C ILE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11122 O ILE C 994 28.221 86.688 35.846 1.00 43.06 8 ATOM 11123 N MET C 995 29.746 88.337 35.686 1.00 37.58 7 ATOM 11124 CA MET C 995 30.210 87.924 34.370 1.00 35.68 6 ATOM 11125 CB MET C 995 30.945 89.076 33.705 1.00 20.97 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11128 CE MET C 995 30.986 92.311 32.174 1.00 22.42 6 ATOM 11129 C MET C 995 31.466 91.803 33.727 1.00 21.18 16 ATOM 11129 C MET C 995 31.466 91.803 35.801 1.00 36.47 6 ATOM 11130 O MET C 995 31.370 86.430 35.801 1.00 36.94 8 ATOM 11131 N LYS C 996 31.753 86.198 33.609 1.00 46.96 7	ATOM ATOM ATOM	11113 11114 11115	C O N	PHE C 9 PHE C 9 ILE C 9	93 93 94	26.617 27.413 26.995	89.809 90.742 88.541	37.789 37.730 37.780	1.00 1.00 1.00	44.72 45.45 44.61	6 8 7
ATOM 11121 C ILE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11122 O ILE C 994 28.221 86.688 35.846 1.00 43.06 8 ATOM 11123 N MET C 995 29.746 88.337 35.686 1.00 37.58 7 ATOM 11124 CA MET C 995 30.210 87.924 34.370 1.00 35.68 6 ATOM 11125 CB MET C 995 30.945 89.076 33.705 1.00 20.97 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16	ATOM 11121 C ILE C 994 28.784 87.677 36.322 1.00 43.75 6 ATOM 11122 O ILE C 994 28.221 86.688 35.846 1.00 43.06 8 ATOM 11123 N MET C 995 29.746 88.337 35.686 1.00 37.58 7 ATOM 11124 CA MET C 995 30.210 87.924 34.370 1.00 35.68 6 ATOM 11125 CB MET C 995 30.945 89.076 33.705 1.00 20.97 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16 ATOM 11128 CE MET C 995 30.986 92.311 32.174 1.00 22.42 6 ATOM 11129 C MET C 995 31.171 86.784 34.648 1.00 36.47 6 ATOM 11130 O MET C 995 31.370 86.430 35.801 1.00 36.94 8 ATOM 11131 N LYS C 996 31.753 86.198 33.609 1.00 46.96 7	ATOM ATOM	11117 11118	CB CG2	ILE C 9	94 94	28.784 30.207	87.142 87.334	38.737 39.090	1.00 1.00 1.00	19.13 20.66 17.49	6 6 6
ATOM 11125 CB MET C 995 30.945 89.076 33.705 1.00 20.97 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16	ATOM 11125 CB MET C 995 30.945 89.076 33.705 1.00 20.97 6 ATOM 11126 CG MET C 995 30.322 90.428 33.981 1.00 20.58 6 ATOM 11127 SD MET C 995 31.466 91.803 33.727 1.00 21.18 16 ATOM 11128 CE MET C 995 30.986 92.311 32.174 1.00 22.42 6 ATOM 11129 C MET C 995 31.171 86.784 34.648 1.00 36.47 6 ATOM 11130 O MET C 995 31.370 86.430 35.801 1.00 36.94 8 ATOM 11131 N LYS C 996 31.753 86.198 33.609 1.00 46.96 7	MOTA MOTA	11121 11122	C 0	ILE C 9	94 94	28.784 28.221 29.746	87.677 86.688 88.337	36.322 35.846 35.686	1.00 1.00 1.00	43.75 43.06 37.58	6 8 7
	ATOM 11129 C MET C 995 31.171 86.784 34.648 1.00 36.47 6 ATOM 11130 O MET C 995 31.370 86.430 35.801 1.00 36.94 8 ATOM 11131 N LYS C 996 31.753 86.198 33.609 1.00 46.96 7	MOTA MOTA	11125 11126	CB CG	MET C 9	95 95	30.945 30.322	89.076 90.428 91.803	33.705 33.981 33.727	1.00 1.00 1.00	20.97 20.58 21.18	6 6 16



MOTA	11136	CE	LYS C	996	33.385	80.444	32.215	1.00	13.87	6
MOTA	11137	NZ	LYS C		32.800	79.143	31.773	1.00	13.87	7
MOTA	11138	С	LYS C		33.904	85.345	32.860	1.00	51.11	6
ATOM	11139	0	LYS C		33.804	85.125	31.658	1.00	53.25	8
MOTA	11140	N	LEU C		35.025	85.784	33.426		15.42	7
ATOM	11141	CA	LEU C		36.225	86.095	32.664		15.70	6
ATOM	11142	CB	LEU C		37.174 36.487	86.840	33.569 34.168	1.00	13.87 13.87	6 6
ATOM ATOM	11143 11144	CG CD1	LEU C	997 997	30.487	88.046 88.663	35.226	1.00	13.87	6
MOTA	11144	CD1		997	36.187	89.013	33.090	1.00	13.87	6
MOTA	11146	C	LEU C		36.968	84.958	31.953		17.74	6
MOTA	11147	Ö	LEU C		36.949	83.808	32.368	1.00	18.03	8
ATOM	11148	N	TYR C		37.645	85.322	30.873	1.00	20.72	7
MOTA	11149	CA	TYR C	998	38.408	84.407	30.035	1.00	24.37	6
MOTA	11150	CB	TYR C	998	39.214	85.242	29.023		92.26	6
ATOM	11151	CG	TYR C		40.008	84.460	27.990	1.00	96.60	6
MOTA	11152	CD1	TYR C		39.480	83.321	27.372		98.30	6
MOTA	11153	CE1	TYR C		40.209	82.619	26.397 27.607		98.92 98.51	6 6
ATOM	11154 11155	CD2 CE2	TYR C		41.283 42.016	84.880 84.190	26.633			6
ATOM	11156	CEZ		998	41.476	83.064	26.035	1.00	98.33	6
MOTA	11157	OH	TYR C		42.207	82.396	25.077	1.00	98.89	8
ATOM	11158	C	TYR C		39.314	83.378	30.727	1.00	25.75	6
MOTA	11159	0	TYR C	998	39.751	82.435	30.071	1.00		8
MOTA	11160	N		999	39.584	83.507	32.028	1.00	41.06	7
MOTA	11161	CA		999	40.466	82.532	32.694	1.00	43.13	6
MOTA	11162	CB		999	40.904	83.059	34.055	1.00	74.02	6
ATOM	11163	CG		999 999	42.100 42.389	83.956 84.978	33.975 33.136	1.00	78.41 79.36	6 6
ATOM ATOM	11164 11165	CD2	HIS C		43.190	83.824	34.812		80.62	7
ATOM	11166	CE1		999	44.100	84.727	34.488		80.65	6
ATOM	11167			999	43.640	85.440	33.475		80.99	7
ATOM	11168	С	HIS C	999	40.014	81.061	32.827		42.37	6
ATOM	11169	0		999	40.634	80.165	32.249	1.00	42.56	8
ATOM	11170	N	MET C		38.956	80.808	33.590	1.00	61.43	7
ATOM	11171	CA	MET C		38.420	79.451	33.775	1.00	60.85	6 6
MOTA	11172 11173	CB CG		1000 1000	37.354 37.804	79.165 79.398	32.710 31.273	1.00	57.57 61.63	6
ATOM ATOM	11173	SD		1000	36.405	79.538	30.147	1.00	64.55	16
ATOM	11175	CE	MET C		35.399	78.247	30.678	1.00	65.80	6
ATOM	11176	C	MET C		39.415	78.287	33.832		59.77	6
ATOM	11177	0	MET C		39.571	77.541	32.875		60.85	8
ATOM	11178	N	VAL C		40.055	78.153	34.990		16.94	7
MOTA	11179	CA	VAL C		41.032	77.119	35.336			6
MOTA	11180	CB	VAL C		40.466	76.118	36.340	1.00	38.93	6
MOTA MOTA	11181 11182	CG1	VAL C		41.562 39.887	75.158 76.836	36.736 37.553		39.27 38.97	6 6
ATOM	11183	CGZ	VAL C		41.623	76.283	34.242		14.44	6
ATOM	11184	Ö	VAL C		42.806	76.408	33.954		14.38	8
ATOM	11185	N	GLU C		40.794	75.397	33.683		60.65	7
MOTA	11186	CA	GLU C		41.168	74.466	32.614	1.00		6
ATOM	11187	СВ	GLU C		40.051	74.334	31.573	1.00	72.07	6
MOTA	11188	CG	GLU C		38.731	73.790	32.072	1.00		6
ATOM	11189 11190	CD OE1	GLU C		37.791 38.059	73.451 72.470	30.931 30.208		79.01 81.12	6 8
MOTA MOTA	11190	OE1			36.792	74.176	30.208		80.37	8
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ATOM	11248	OG		C1009	55.872	62.041	38.021	1.00 59.37	8
MOTA	11249	C		C1009	57.547	63.617	36.080	1.00 52.84	6
MOTA	11250	0		C1009	58.581	63.409	36.706	1.00 53.28	8
MOTA	11251	N		C1010	57.439	63.477	34.763	1.00 27.93	7
ATOM	11252	CA		C1010	58.573	63.087	33.948	1.00 29.04	6
MOTA	11253	CB		C1010	58.727	61.561	33.885	1.00 37.56	6
MOTA	11254	OG1		C1010	58.409	60.985	35.157	1.00 36.45	8
MOTA	11255	CG2		C1010	60.165	61.205	33.559	1.00 37.90	6
MOTA	11256	С		C1010	58.391	63.637	32.540	1.00 30.66	6
MOTA	11257	0		C1010	58.680	64.800	32.282	1.00 30.57	8
MOTA	11258	N		C1011	57.928	62.799	31.623	1.00 42.65	7
MOTA	11259	CA		C1011	57.694	63.247	30.255	1.00 45.25	6
MOTA	11260	С		C1011	58.796	63.964	29.489	1.00 46.79	6
MOTA	11261	0		C1011	59.914	64.085	29.967	1.00 47.00	8
MOTA	11262	N		C1012	58.479	64.479	28.291	1.00 48.83	7
MOTA	11263	CD		C1012	57.064	64.689	27.931	1.00114.49	6
MOTA	11264	CA		C1012	59.342	65.201	27.352	1.00 49.93	6
MOTA	11265	CB		C1012	58.376	66.173	26.700	1.00114.23	6
MOTA	11266	CG		C1012	57.158	65.353	26.572	1.00114.37	6
MOTA	11267	C		C1012	60.568	65.914	27.901	1.00 51.27	6
MOTA	11268	0		C1012	60.460	66.788	28.759	1.00 51.89	8
ATOM	11269	N		C1013	61.728	65.554	27.363	1.00 86.75	7
ATOM	11270	CA		C1013	63.019	66.141	27.745	1.00 87.75	6
MOTA	11271	CB		C1013	63.976	65.016	28.111	1.00 53.54 1.00 53.45	6 6
MOTA	11272	CG		C1013	64.625	65.034	29.482 30.650	1.00 53.45	6
MOTA	11273	CD1		C1013	63.866 64.482	64.966 64.779		1.00 52.95	6
MOTA	11274	CE1 CD2		C1013 C1013	66.020	64.779	31.886 29.594	1.00 52.45	6
ATOM	11275 11276	CE2		C1013	66.640	64.753	30.808	1.00 53.30	6
ATOM	11277	CEZ		C1013	65.875	64.667	31.946	1.00 53.24	6
ATOM	11278	OH		C1013	66.521	64.425	33.131	1.00 52.45	8
ATOM	11279	C		C1013	63.537	66.857	26.478	1.00 88.24	6
ATOM	11280	Õ		C1013	63.463	66.291	25.378	1.00 89.30	8
ATOM	11281	Ň		C1014	64.069	68.072	26.610	1.00 47.08	7
ATOM	11282	CA		C1014	64.545	68.794	25.427	1.00 47.39	6
ATOM	11283	CB		C1014	64.378	70.292	25.598	1.00 60.42	6
MOTA	11284	OG		C1014	65.170	70.966	24.627	1.00 63.02	8
ATOM	11285	C		C1014	65.983	68.546	25.002	1.00 47.75	6
ATOM	11286	0	SER	C1014	66.906	68.585	25.820	1.00 47.83	8
ATOM	11287	N		C1015	66.170	68.342	23.699	1.00 70.61	7
ATOM	11288	CA		C1015	67.491	68.071	23.150	1.00 69.98	6
MOTA	11289	CB		C1015	67.386	67.105	21.969	1.00114.54	6
ATOM	11290	CG		C1015	66.451	67.451	20.811	1.00115.93	6
ATOM	11291			C1015	66.940	68.690	20.084	1.00116.00	6
MOTA	11292	CD2		C1015	66.392	66.264	19.860	1.00116.40	6
MOTA	11293	C		C1015	68.296	69.287	22.738	1.00 68.72	6
MOTA	11294	0		C1015	69.349	69.139	22.133	1.00 68.77	8
ATOM	11295	N		C1016	67.803	70.484	23.039	1.00 37.53	7
ATOM	11296	CA		C1016	68.548	71.699	22.718	1.00 36.23	6
MOTA	11297	CB		C1016	67.667	72.807	22.170 21.950	1.00 50.00 1.00 48.92	6 6
MOTA	11298 11299	CG2 CG1		C1016 C1016	68.508 67.011	74.065 72.346	21.950	1.00 48.92	6
MOTA MOTA	11300	CD1		C1016	67.986	72.340	19.768	1.00 49.95	6
ATOM	11300	CDI		C1016	69.152	72.224	24.001	1.00 35.96	6
ATOM	11301	0		C1016	70.359	72.441	24.083	1.00 35.90	8
MOTA	11302	N		C1017	68.292	72.443	24.994	1.00 39.57	7
111 OT1	11000	-4		J= 5 ± ,	JJ. 11 J 11	,	,_,		

MOTA	11360	N	ALA	C1025	54.310	63.400	23.710	1.00 98.15	7
MOTA	11361	CA		C1025	53.453	62.453	24.432	1.00 96.34	6
MOTA	11362	CB		C1025	54.306	61.318	24.994	1.00167.23	6
MOTA	11363	C		C1025	52.634	63.091	25.550	1.00 94.94	6
ATOM	11364	0		C1025	51.509	63.544	25.335	1.00 93.58	8
ATOM	11365	N		C1026	53.190	63.079	26.755	1.00132.87	7
ATOM	11366	CA		C1026	52.532	63.691	27.897	1.00132.40	6
ATOM	11367 11368	CB		C1026 C1026	53.036 52.752	63.076	29.204	1.00208.77	6
ATOM ATOM	11369	CG CD		C1026	52.752	61.586 60.719	29.357 28.414	1.00208.87 1.00208.87	6 6
ATOM	11370	OE1		C1026	54.801	60.698	28.479	1.00208.87	8
ATOM	11371	NE2		C1026	52.889	59.995	27.534	1.00208.87	7
ATOM	11372	C		C1026	52.975	65.138	27.800	1.00131.14	6
ATOM	11373	Ö		C1026	53.337	65.595	26.716	1.00131.60	8
ATOM	11374	N		C1027	52.966	65.860	28.913	1.00 82.92	7
ATOM	11375	CA	PHE	C1027	53.403	67.250	28.877	1.00 80.71	6
ATOM	11376	СВ	PHE	C1027	52.459	68.074	27.998	1.00208.87	6
MOTA	11377	CG		C1027	53.164	68.885	26.947	1.00208.87	6
ATOM	11378	CD1		C1027	54.015	68.271	26.032	1.00208.87	6
ATOM	11379	CD2		C1027	52.973	70.261	26.864	1.00208.87	6
MOTA	11380	CE1		C1027	54.665	69.013	25.052	1.00208.87	6
ATOM	11381	CE2		C1027	53.620	71.014	25.884	1.00208.87	6
MOTA	11382	CZ		C1027	54.467	70.387	24.976	1.00208.87	6
MOTA MOTA	11383 11384	C O		C1027 C1027	53.508 52.813	67.887 67.496	30.255 31.195	1.00 77.67 1.00 77.36	6 8
ATOM	11385	N		C1027	54.389	68.873	30.369	1.00 77.36	7
ATOM	11385	CA		C1028	54.552	69.539	31.642	1.00 49.93	6
ATOM	11387	C		C1028	55.682	70.545	31.700	1.00 43.63	6
ATOM	11388	Ö		C1028	55.707	71.511	30.943	1.00 44.95	8
ATOM	11389	N		C1029	56.620	70.313	32.608	1.00 66.31	7
MOTA	11390	CA	GLY	C1029	57.730	71.223	32.762	1.00 63.47	6
MOTA	11391	С		C1029	57.277	72.286	33.730	1.00 61.22	6
ATOM	11392	0		C1029	56.098	72.607	33.764	1.00 62.75	8
MOTA	11393	N		C1030	58.193	72.824	34.525	1.00 81.20	7
ATOM	11394	CA		C1030	57.850	73.854	35.496	1.00 78.10	6
MOTA	11395	CB		C1030	57.485	73.210	36.816	1.00 31.57	6
ATOM	11396 11397	CG CD		C1030 C1030	56.815 55.739	74.167 74.943	37.728 37.028	1.00 28.64 1.00 25.08	6 6
MOTA MOTA	11397	OE1		C1030	54.896	74.343	36.352	1.00 25.08	8
ATOM	11399	NE2		C1030	55.756	76.257	37.189	1.00 21.41	7
MOTA	11400	C		C1030	59.050	74.755	35.689	1.00 77.82	6
ATOM	11401	Ö		C1030	60.161	74.351	35.381	1.00 79.19	8
MOTA	11402	N		C1031	58.856	75.963	36.205	1.00 45.25	7
MOTA	11403	CA		C1031	60.001	76.849	36.373	1.00 44.23	6
ATOM	11404	CB	ARG	C1031	59.735	78.199	35.702	1.00110.67	6
MOTA	11405	CG		C1031	59.607	79.394	36.643	1.00113.90	6
ATOM	11406	$^{\mathrm{CD}}$		C1031	58.163	79.634	37.099	1.00115.04	6
ATOM	11407	NE		C1031	57.921	81.056	37.355	1.00115.65	7
ATOM	11408	CZ		C1031	56.733	81.584	37.635	1.00116.14	6
MOTA MOTA	11409 11410	NH1 NH2		C1031 C1031	55.653 56.628	80.814 82.890	37.705 37.833	1.00116.14 1.00116.64	7 7
ATOM	11410 11411	ипz С		C1031	60.443	77.055	37.809	1.00116.64	6
ATOM	11412	0		C1031	59.641	76.984	38.736	1.00 42.41	8
ATOM	11413	N		C1032	61.734	77.327	37.981	1.00 40.03	7
ATOM	11414	CA		C1032	62.296	77.530	39.308	1.00 37.15	6
MOTA	11415	CB		C1032	63.197	76.363	39.645	1.00 20.08	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11416 11417 11418 11429 11421 11422 11422 11422 11424 11425 11426 11433 11433 11433 11433 11433 11433 11434 11444 11444 11444 11445 11445 11445 11445 11445 11445 11445 11445 11445 11445 11445 11446 11466 11466 11466 11466 11466 11466 11466 11465	CG2 C O N CA CB CG CD2	PHE PHE PHE PHE GLYYUUUUUUUU METTTT METTTT METTTT TRP PTRP TRP TRP TRP TRP TRP TRP TR	C1032 C1032 C1032 C1032 C1032 C1032 C1032 C1033 C1033 C1033 C1033 C1034 C1034 C1034 C1034 C1034 C1034 C1035 C1035 C1035 C1035 C1035 C1035 C1035 C1036 C1036 C1036 C1036 C1036 C1036 C1037 C1037 C1037 C1037 C1037 C1037 C1037 C1038 C1037	63.291 62.133 64.528 62.200 64.608 63.435 63.076 63.089 63.076 63.085 63.095 63.095 63.095 63.095 65.887 66.5880 67.141 66.599 67.66.599 67.66.699 67.66.699 67.66.699 67.66.699 67.66.699 67.66.699 67.0699 6	76.088 75.992 75.902 75.714 75.626 75.530 78.835 78.8895 81.651 81.752 82.1824 84.5890 86.629 82.441 84.5890 86.629 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 87.829 82.441 82.546 81.317 80.098 79.552 80.756 79.314 82.636	41.105 41.875 41.709 43.217 43.041 43.806 39.467 40.163 38.884 40.218 41.170 40.260 41.424 41.060 41.424 41.060 41.424 41.0637 40.726 41.807 39.720 42.741 43.774 42.724 43.553 42.667 43.583 43.198 44.891 43.919 43.437 42.572 41.442 43.919 43.437 42.572 41.422 43.021 45.381 46.369 44.058 44.058 44.058 44.752 47.691 46.768 46.770	1.00 15.1 1.00 13.8 1.00 13.8 1.00 13.8 1.00 13.8 1.00 37.9 1.00 38.8 1.00 61.1 1.00 59.2 1.00 57.8 1.00 35.2 1.00 35.2 1.00 35.2 1.00 24.8 1.00 25.4 1.00 22.9 1.00 32.4 1.00 33.6 1.00 33.6 1.00 47.7 1.00 49.6 1.00 49.6 1.00 49.6 1.00 49.6 1.00 70.4 1.00 74.8 1.00 74.8 1.00 76.1 1.00 40.6 1.00 76.1 1.00 40.6 1.00 50.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8 1.00 30.8	7777734057766668868766668868766668868766668868766668868766668868766668868766668868766666886876666688687666668868766666887666668876666688766666887666668876666688766666887666666
MOTA	11462	CA	TRP TRP	C1038 C1038	66.680 66.274	82.053 83.524	47.752 47.691	1.00 30.0 1.00 29.8)2 6 38 6
MOTA	11464								
ATOM ATOM	11465	CE2		C1038	67.688	86.135	45.405	1.00 30.0)4 6
MOTA	11467	CE3	TRP	C1038	65.422	86.360	46.207	1.00 30.9	
ATOM	11468	CD1		C1038	68.342 68.730	84.219 85.256	46.357 45.536	1.00 30.7	
ATOM ATOM	11469 11470	NE1 CZ2		C1038 C1038	68.730	85.256 87.317	45.536	1.00 30.4	
ATOM ATOM	11470 11471	CZ2		C1038	65.333	87.531	45.489	1.00 29.3	
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ATOM ATOM	11472 11473	CH2 C	TRP	C1038 C1038	66.411 65.806	87.998 81.353	44.736 48.796	1.00 28.83 1.00 28.68	6 6 0
ATOM ATOM	11474 11475	N		C1038 C1039	66.289 64.515	80.948 81.215	49.844 48.499	1.00 28.13 1.00 18.31	8 7
MOTA	11476	CA		C1039	63.565	80.558	49.399	1.00 17.79	6
ATOM	11477	CB		C1039	62.329	80.121	48.633	1.00 62.41	6
ATOM	11478	C		C1039	64.200	79.360	50.054	1.00 17.24	6
MOTA	11479	0	ALA	C1039	64.203	79.259	51.270	1.00 16.36	8
ATOM	11480	N		C1040	64.740	78.452	49.244	1.00 14.18	7
MOTA	11481	CA		C1040	65.391	77.254	49.776	1.00 13.87	6
MOTA	11482	CB		C1040	65.697	76.246	48.657	1.00 40.62	6
ATOM	11483	CG		C1040	64.594	75.316	48.107	1.00 42.47	6
MOTA	11484	CD1		C1040 C1040	63.908 63.579	74.560 76.119	49.245 47.341	1.00 42.97 1.00 42.23	6 6
ATOM ATOM	11485 11486	CD2 C		C1040	66.669	77.590	50.543	1.00 42.23	6
ATOM	11487	0		C1040	66.893	77.069	51.630	1.00 13.87	8
MOTA	11488	N		C1041	67.506	78.457	49.976	1.00 29.26	7
ATOM	11489	CA		C1041	68.733	78.857	50.655	1.00 28.23	6
MOTA	11490	CB	GLU	C1041	69.457	80.000	49.901	1.00 19.32	6
MOTA	11491	CG	GLU	C1041	69.804	79.664	48.436	1.00 19.62	6
MOTA	11492	CD		C1041	71.042	80.396	47.870	1.00 20.88	6
MOTA	11493	OE1		C1041	71.017	81.622	47.594	1.00 18.20	8
MOTA	11494	OE2		C1041	72.064	79.713	47.684	1.00 22.50 1.00 27.64	8 6
MOTA	11495 11496	C 0		C1041 C1041	68.280 68.595	79.319 78.686	52.040 53.043	1.00 27.84	8
ATOM ATOM	11490	N		C1041	67.494	80.391	52.078	1.00 27.24	7
ATOM	11498	CA		C1042	66.985	80.964	53.320	1.00 15.86	6
ATOM	11499	CB		C1042	65.865	81.938	53.021	1.00 42.81	6
MOTA	11500	С		C1042	66.496	79.894	54.274	1.00 17.96	6
ATOM	11501	0	ALA	C1042	66.644	80.020	55.495	1.00 18.10	8
ATOM	11502	N		C1043	65.897	78.846	53.713	1.00 45.50	7
ATOM	11503	CA		C1043	65.404	77.735	54.516	1.00 47.36	6
ATOM	11504	CB		C1043	64.442	76.872 77.130	53.702 53.990	1.00 32.82 1.00 33.23	6 6
ATOM	11505 11506	CG CD1		C1043 C1043	62.985 62.043	77.130	52.977	1.00 33.23	6
ATOM	11507	CE1		C1043	60.688	77.285	53.239	1.00 35.07	6
ATOM	11508	CD2		C1043	62.543	77.366	55.279	1.00 34.22	6
ATOM	11509	CE2		C1043	61.191	77.556	55.555	1.00 34.94	6
MOTA	11510	CZ		C1043	60.271	77.513	54.530	1.00 35.90	6
MOTA	11511	OH		C1043	58.938	77.694	54.796	1.00 37.46	8
ATOM	11512	C		C1043	66.609	76.918	54.949	1.00 48.24	6
ATOM	11513	0		C1043	67.292	77.269	55.899	1.00 50.24 1.00 34.49	8 7
ATOM	11514 11515	N CA		C1044 C1044	66.890 68.029	75.841 75.026	54.240 54.602	1.00 34.49	6
ATOM ATOM	11515	CA		C1044	67.912	73.702	53.899	1.00 30.05	6
ATOM	11517	Ö		C1044	68.639	72.755	54.185	1.00 38.33	8
ATOM	11518	N		C1045	66.976	73.652	52.965	1.00 27.69	7
MOTA	11519	CA		C1045	66.715	72.462	52.185	1.00 28.56	6
MOTA	11520	CB		C1045	65.376	72.599	51.506	1.00 48.75	6
MOTA	11521	C		C1045	67.802	72.241	51.146	1.00 31.05	6
MOTA	11522	0		C1045	67.505	71.962	49.982	1.00 31.56	8
ATOM	11523	N C7		C1046	69.058	72.358	51.565 50.655	1.00 59.97 1.00 62.18	7 6
$ ext{MOTA}$	11524 11525	CA CB		C1046 C1046	70.181 71.446	72.176 71.892	51.432	1.00 82.18	6
ATOM	11525	СБ		C1046	69.911	71.052	49.664	1.00 63.92	6
ATOM	11527	0		C1046	69.908	71.282	48.458	1.00 65.76	8
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				~4 0 45	CO CC1	CO 040	EO 167	1.00 17.97	7
ATOM	11528	N		C1047	69.661	69.848	50.167		
ATOM	11529	CA		C1047	69.401	68.702	49.289	1.00 18.62	6
MOTA	11530	CB	HIS	C1047	69.140	67.441	50.111	1.00 82.51	6
ATOM	11531	CG	HIS	C1047	70.311	67.004	50.928	1.00 85.62	6
MOTA	11532	CD2		C1047	70.498	66.961	52.267	1.00 86.23	6
	11532			C1047	71.488	66.569	50.362	1.00 87.32	7
ATOM					72.350	66.276	51.318	1.00 87.47	6
ATOM	11534			C1047				1.00 87.30	7
MOTA	11535	NE2		C1047	71.773	66.505	52.484		
MOTA	11536	С		C1047	68.205	68.969	48.406	1.00 18.10	6
MOTA	11537	0	\mathtt{HIS}	C1047	68.251	68.774	47.192	1.00 16.18	8
MOTA	11538	N	THR	C1048	67.128	69.410	49.042	1.00 41.71	7
ATOM	11539	CA	THR	C1048	65.890	69.716	48.352	1.00 42.95	6
ATOM	11540	СВ	THR	C1048	64.840	70.267	49.349	1.00 25.95	6
ATOM	11541	OG1		C1048	64.529	69.265	50.326	1.00 24.53	8
	11542	CG2		C1048	63.574	70.664	48.636	1.00 25.54	6
ATOM				C1048	66.194	70.736	47.258	1.00 44.10	6
ATOM	11543	C			65.448	70.750	46.285	1.00 45.27	8
MOTA	11544	0		C1048				1.00 43.27	7
MOTA	11545	N		C1049	67.300	71.457	47.414		
MOTA	11546	CA		C1049	67.689	72.436	46.416	1.00 22.41	6
MOTA	11547	CB		C1049	68.462	73.580	47.046	1.00 14.67	6
MOTA	11548	CG	LEU	C1049	69.024	74.548	46.008	1.00 13.87	6
ATOM	11549	CD1	LEU	C1049	67.920	75.428	45.470	1.00 13.87	6
ATOM	11550	CD2	LEU	C1049	70.105	75.393	46.635	1.00 13.87	6
ATOM	11551	C		C1049	68.532	71.800	45.307	1.00 25.25	6
ATOM	11552	Ö		C1049	68.120	71.802	44.153	1.00 26.31	8
ATOM	11552	N		C1050	69.699	71.253	45.643	1.00 68.14	7
	11554	CA		C1050	70.576	70.610	44.646	1.00 70.78	6
ATOM					71.694	69.829	45.351	1.00 70.95	6
ATOM	11555	CB		C1050		68.969	44.445	1.00 71.54	6
MOTA	11556	CG		C1050	72.576		45.201	1.00 71.34	6
MOTA	11557	CD		C1050	73.733	68.324			8
MOTA	11558	OE1		C1050	73.534	67.546	46.138	1.00 73.69	7
MOTA	11559	NE2		C1050	74.951	68.652	44.795	1.00 73.59	
MOTA	11560	С		C1050	69.808	69.660	43.728	1.00 72.51	6
ATOM	11561	0	GLN	C1050	70.227	69.362	42.612	1.00 74.13	8
MOTA	11562	N	GLU	C1051	68.677	69.190	44.227	1.00 47.00	7
MOTA	11563	CA	GLU	C1051	67.801	68.269	43.517	1.00 47.80	6
ATOM	11564	CB	GLU	C1051	66.749	67.772	44.516	1.00 87.07	6
ATOM	11565	CG	GLU	C1051	65.719	66.820	43.979	1.00 89.43	6
MOTA	11566	CD		C1051	64.757	66.371	45.059	1.00 91.00	6
MOTA	11567	OE1		C1051	64.244	67.239	45.798	1.00 91.45	8
ATOM	11568	OE2		C1051	64.508		45.163	1.00 91.93	8
	11569	C		C1051	67.142	68.955	42.320	1.00 46.49	6
ATOM				C1051	66.878	68.343	41.283	1.00 46.46	8
ATOM	11570	0				70.244	42.479	1.00 33.53	7
ATOM	11571	N		C1052	66.894			1.00 33.50	6
MOTA	11572	CA		C1052	66.252	71.033	41.452		
MOTA	11573	CB		C1052	65.346	72.086	42.112	1.00 52.50	6
MOTA	11574	CG		C1052	63.843	71.788	41.962	1.00 54.28	6
MOTA	11575	SD		C1052	62.727	72.440	43.248	1.00 55.26	16
MOTA	11576	CE	MET	C1052	61.470	71.163	43.275	1.00 53.55	6
ATOM	11577	С	MET	C1052	67.248	71.682	40.501	1.00 30.92	6
ATOM	11578	Ö		C1052	66.957	72.690	39.876	1.00 30.06	8
ATOM	11579	N		C1053	68.432	71.105	40.395	1.00 68.89	7
ATOM	11580	CA		C1053	69.443	71.627	39.490	1.00 68.99	6
ATOM	11581	CB		C1053	70.306	72.684	40.179	1.00 67.82	6
ATOM	11582	CG		C1053	69.706	73.932	40.839	1.00 69.43	6
					68.706	74.629	39.927	1.00 68.76	6
ATOM	11583	CDT	LEU	C1053	00.700	14.043	اعربرد	1.00 00.70	0

ATOM	11584			C1053	69.050 70.295	73.528 70.423	42.126 39.138	1.00 70.12 1.00 68.46	6 6
ATOM ATOM	11585 11586	C 0		C1053 C1053	70.293	70.423	38.637	1.00 69.90	8
ATOM	11587	N		C1054	69.736	69.250	39.405	1.00 39.11	7
MOTA	11588	CA		C1054	70.414	67.983	39.177	1.00 35.96	6
ATOM	11589	СВ		C1054	71.110	67.521	40.479	1.00 59.10	6
MOTA	11590	OG1	THR	C1054	71.969	68.562	40.951	1.00 60.89	8
ATOM	11591	CG2		C1054	71.927	66.274	40.244	1.00 60.72	6
MOTA	11592	С		C1054	69.382	66.932	38.774	1.00 33.47	6
MOTA	11593	0		C1054	68.821	66.966	37.677	1.00 32.96	8
MOTA	11594	N		C1055	69.147	66.007	39.696	1.00 24.25	7
MOTA	11595	CA		C1055	68.202	64.917 64.323	39.547 40.945	1.00 22.76 1.00 71.16	6 6
MOTA	11596 11597	CB CG2		C1055 C1055	67.863 67.064	63.050	40.945	1.00 71.16	6
ATOM ATOM	11597	CG2		C1055	69.152	64.015	41.708	1.00 73.13	6
ATOM	11599	CD1		C1055	69.823	65.230	42.326	1.00 74.82	6
MOTA	11600	C		C1055	66.901	65.350	38.861	1.00 20.58	6
ATOM	11601	Ō		C1055	66.015	64.530	38.636	1.00 19.60	8
MOTA	11602	N	LYS	C1056	66.759	66.620	38.509	1.00 30.64	7
MOTA	11603	CA		C1056	65.512	67.010	37.867	1.00 29.46	6
ATOM	11604	CB		C1056	64.611	67.710	38.898	1.00 37.57	6
ATOM	11605	CG		C1056	64.300	66.874	40.146 40.790	1.00 36.56 1.00 36.77	6 6
ATOM	11606 11607	CD		C1056 C1056	62.971 63.164	67.288 67.898	40.790	1.00 36.77 1.00 36.68	6
ATOM ATOM	11607	CE NZ		C1056	61.899	68.327	42.173	1.00 36.50	7
ATOM	11609	C		C1056	65.588	67.850	36.581	1.00 28.70	6
ATOM	11610	Ö		C1056	64.594	68.448	36.175	1.00 27.32	8
ATOM	11611	N	SER	C1057	66.728	67.889	35.907	1.00 33.53	7
MOTA	11612	CA		C1057	66.763	68.714	34.711	1.00 34.79	6
ATOM	11613	CB		C1057	66.781	70.191	35.143	1.00 41.35	6 8
ATOM	11614	OG C		C1057 C1057	66.640 67.892	71.087 68.432	34.055 33.709	1.00 40.46 1.00 36.44	6
ATOM ATOM	11615 11616	0		C1057	67.652	67.918	32.609	1.00 36.41	8
ATOM	11617	N		C1058	69.123	68.756	34.086	1.00 41.70	7
ATOM	11618	CA		C1058	70.250	68.572	33.189	1.00 42.89	6
MOTA	11619	CB	ASP	C1058	71.175	69.768	33.307	1.00 72.96	6
MOTA	11620	CG		C1058	70.419	71.041	33.543	1.00 75.70	6
MOTA	11621	OD1		C1058	69.565	71.384	32.697	1.00 76.87	8
ATOM	11622	OD2		C1058 C1058	70.670 71.037	71.691 67.315	34.580 33.453	1.00 76.41 1.00 43.10	8 6
MOTA MOTA	11623 11624	С 0		C1058	71.460	66.637	32.514	1.00 44.09	8
ATOM	11625	N		C1050	71.240	67.022	34.734	1.00 40.94	7
ATOM	11626	CA		C1059	72.009	65.860	35.169	1.00 40.89	6
ATOM	11627	CB		C1059	72.100	65.851	36.693	1.00 59.93	6
MOTA	11628	CG		C1059	73.229	64.985	37.209	1.00 59.94	6
MOTA	11629			C1059	73.206	63.754	36.993	1.00 60.63	8
ATOM	11630			C1059	74.145	65.550	37.840	1.00 59.46	8
ATOM	11631	C		C1059 C1059	71.392 70.647	64.564 63.904	34.677 35.404	1.00 41.14 1.00 41.24	6 8
MOTA MOTA	11632 11633	N O		C1060	71.723	64.200	33.439	1.00 41.24	7
ATOM	11633 11634	CA		C1060	71.123	62.996	32.809	1.00 29.42	6
ATOM	11635	CB		C1060	71.833	62.799	31.440	1.00 33.65	6
MOTA	11636	CG2		C1060	71.690	61.376	30.984	1.00 33.67	6
MOTA	11637	CG1		C1060	71.161	63.768	30.469	1.00 35.61	6
ATOM	11638	CD1		C1060	71.539	63.619	29.014	1.00 39.90	6 6
MOTA	11639	С	TPE	C1060	71.348	61.755	33.667	1.00 29.48	О

ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11640 11641 11642 11643 11644 11645 11646	O N CA CB CG CD OE1	GLU GLU GLU GLU GLU	C1060 C1061 C1061 C1061 C1061 C1061	70.389 72.554 72.825 74.230 75.328 75.348 74.277	60.999 61.552 60.425 60.533 59.915 58.392 57.771	33.844 34.192 35.070 35.672 34.818 34.889 34.706	1.00 28.33 1.00 42.18 1.00 42.34 1.00 93.65 1.00 98.94 1.00101.92 1.00102.54	8 7 6 6 6 8
MOTA	11647	OE2		C1061	76.437	57.815	35.118	1.00104.01	8 6
MOTA MOTA	11648 11649	C 0		C1061 C1061	71.792 70.786	60.529 59.832	36.166 36.139	1.00 41.28 1.00 41.16	8
ATOM	11650	N		C1062	72.043	61.430	37.109	1.00 39.43	7
MOTA	11651	CA		C1062	71.135	61.637	38.223	1.00 39.42	6
ATOM	11652	C		C1062	69.658	61.633	37.873 38.593	1.00 39.41 1.00 38.93	6 8
ATOM	11653 11654	N O		C1062 C1063	68.844 69.299	61.044 62.298	36.781	1.00 30.84	7
ATOM	11655	CA		C1063	67.903	62.332	36.359	1.00 30.59	6
ATOM	11656	CB	ALA	C1063	67.787	62.893	34.957	1.00 25.00	6
MOTA	11657	C		C1063	67.402	60.909	36.379	1.00 31.03	6
ATOM	11658	0		C1063	66.524 68.006	60.565 60.089	37.159 35.522	1.00 30.00 1.00 47.03	8 7
ATOM ATOM	11659 11660	N CA		C1064 C1064	67.670	58.676	35.380	1.00 47.03	6
ATOM	11661	CB		C1064	68.636	58.011	34.409	1.00 61.15	6
ATOM	11662	CG		C1064	68.922	58.873	33.197	1.00 62.05	6
MOTA	11663	OD1		C1064	68.104	59.695	32.793	1.00 61.27 1.00 65.22	8 7
ATOM ATOM	11664 11665	ND2 C		C1064 C1064	70.089 67.684	58.678 57.930	32.602 36.707	1.00 63.22	6
ATOM	11666	0		C1064	66.871	57.033	36.932	1.00 47.80	8
ATOM	11667	N		C1065	68.614	58.293	37.582	1.00 40.42	7
ATOM	11668	CA		C1065	68.692	57.667	38.894	1.00 42.32	6
ATOM	11669	CB		C1065	69.823	58.272	39.703	1.00116.17 1.00 43.55	6 6
ATOM ATOM	11670 11671	C O		C1065 C1065	67.366 66.959	57.943 57.215	39.570 40.457	1.00 43.33	8
ATOM	11671	N		C1066	66.693	59.003	39.134	1.00 53.27	7
MOTA	11673	CA		C1066	65.398	59.367	39.695	1.00 55.91	6
MOTA	11674	CB		C1066	65.098	60.833	39.421	1.00 50.08	6
MOTA	11675	C		C1066	64.279 63.570	58.496 57.829	39.134 39.880	1.00 57.12 1.00 57.12	6 8
MOTA MOTA	11676 11677	O N		C1066 C1067	64.116	58.505	37.818	1.00 57.12	7
MOTA	11678	CA		C1067	63.069	57.710	37.207	1.00 67.30	6
ATOM	11679	СВ		C1067	62.896	58.062	35.732	1.00 78.92	6
MOTA	11680	CG		C1067	61.901	57.150		1.00 79.83	6
ATOM	11681	CD1		C1067	60.603	57.066 56.122	35.571 35.083	1.00 80.62 1.00 81.65	6 6
MOTA MOTA	11682 11683	CE1 CD2		C1067 C1067	59.710 62.282	56.275	34.076	1.00 81.03	6
ATOM	11684	CE2		C1067	61.397	55.325	33.578	1.00 80.93	6
ATOM	11685	CZ	TYR	C1067	60.113	55.252	34.092	1.00 81.31	6
MOTA	11686	OH		C1067	59.242	54.286	33.643	1.00 81.64	8
ATOM	11687	C		C1067	63.332 62.598	56.218 55.402	37.337 36.781	1.00 68.80 1.00 67.61	6 8
MOTA MOTA	11688 11689	O N		C1067 C1068	64.379	55.851	38.065	1.00 43.61	7
ATOM	11690	CA		C1068	64.671	54.435	38.240	1.00 46.88	6
MOTA	11691	СВ	GLN	C1068	65.991	54.064	37.565	1.00108.79	6
MOTA	11692	CG		C1068	66.158	52.564	37.355	1.00110.39	6
MOTA	11693	CD OF1		C1068	67.334	52.221	36.458 36.806	1.00112.30 1.00113.10	6 8
$ ext{ATOM}$	11694 11695	OE1 NE2		C1068 C1068	68.490 67.044	52.474 51.648	35.292	1.00113.10	7
VI ON	11070	ت∠نـد∡	OTT14	01000	0011	01.010			

ATOM 11717 C ILE C1071 60.932 51.415 40.241 1.00101 ATOM 11718 O ILE C1071 60.220 50.412 40.227 1.00102 ATOM 11719 N LYS C1072 62.147 51.443 40.779 1.00 94 ATOM 11720 CA LYS C1072 62.712 50.269 41.410 1.00 96 ATOM 11721 CB LYS C1072 64.188 50.479 41.747 1.00112 ATOM 11722 CG LYS C1072 65.154 50.269 40.588 1.00113 ATOM 11723 CD LYS C1072 66.592 50.345 41.091 1.00113 ATOM 11724 CE LYS C1072 66.592 50.345 41.091 1.00113 ATOM 11725 NZ LYS C1072 68.993 50.337 40.481 1.00113 ATOM 11726 C LYS C1072 68.993 50.337 40.481 1.00112 ATOM 11727 O LYS C1072 61.933 50.021 42.686 1.00 97 ATOM 11728 N GLY C1073 62.368 50.631 43.782 1.00108 ATOM 11729 CA GLY C1073 62.368 50.631 43.782 1.00108 ATOM 11730 C GLY C1073 62.368 50.631 43.782 1.00108 ATOM 11731 O GLY C1073 62.126 51.185 46.246 1.00111 ATOM 11732 N ALA C1074 62.521 50.443 47.272 1.00197 ATOM 11733 CA ALA C1074 62.521 50.443 47.272 1.00197 ATOM 11734 CB ALA C1074 62.950 51.018 48.538 1.00198 ATOM 11734 CB ALA C1074 63.233 49.893 49.535 1.00161 ATOM 11735 C ALA C1074 64.122 51.999 48.536 1.00200	. 80 . 43 . 40 . 75 . 38 . 27 . 49 64 78 49 	66666876666687666676876687666
ATOM 11730 C GLY C1073 62.126 51.185 46.246 1.00111 ATOM 11731 O GLY C1073 62.131 52.413 46.261 1.00111	42	6 8
ATOM 11734 CB ALA C1074 63.233 49.893 49.535 1.00161	.27	6
ATOM 11735 C ALA C1074 64.122 51.999 48.536 1.00200		
ATOM 11736 O ALA C1074 64.683 52.260 49.599 1.00203 ATOM 11737 N ASP C1075 64.504 52.558 47.388 1.00106		8 7
ATOM 11737 N ASI C1075 64.364 32.336 47.366 1.6616 ATOM 11738 CA ASP C1075 65.621 53.504 47.413 1.00106		6
ATOM 11739 CB ASP C1075 66.910 52.832 46.930 1.00182		6 6
ATOM 11740 CG ASP C1075 68.151 53.417 47.594 1.00183 ATOM 11741 OD1 ASP C1075 68.332 54.653 47.540 1.00184		8
ATOM 11742 OD2 ASP C1075 68.944 52.642 48.173 1.00184	1.82	8
ATOM 11743 C ASP C1075 65.397 54.805 46.649 1.00105		6
ATOM 11744 O ASP C1075 64.748 54.828 45.607 1.00104 ATOM 11745 N VAL C1076 65.954 55.888 47.186 1.00 64		8 7
ATOM 11746 CA VAL C1076 65.817 57.213 46.593 1.00 65	5.28	6
ATOM 11747 CB VAL C1076 65.431 58.225 47.671 1.00193		6
ATOM 11748 CG1 VAL C1076 63.923 58.256 47.825 1.00192 ATOM 11749 CG2 VAL C1076 66.087 57.840 48.994 1.00192		6 6
ATOM 11750 C VAL C1076 67.070 57.714 45.872 1.00 69	5.50	6
ATOM 11751 O VAL C1076 68.178 57.284 46.176 1.00 69	.51	8

ATOM ATOM ATOM	11752 11753 11754	N CD CA	PRO C1077 PRO C1077 PRO C1077	66.9 65.5 67.9	73 59.	247 44	4.917 4.689 4.070	1.00111. 1.00 70. 1.00111.	63	7 6 6
MOTA	11755	CB	PRO C1077	67.1	99 60.	568 43	3.629	1.00 70.		6
ATOM	11756	CG	PRO C1077	65.7			3.455 4.720	1.00 70. 1.00112.		6 6
ATOM ATOM	11757 11758	C O	PRO C1077 PRO C1077	69.2 69.4			4.720 5.438	1.00112.		8
ATOM	11759	N	GLU C1078	70.2			4.447	1.00187.		7
MOTA	11760	CA	GLU C1078	71.5			5.029	1.00187.		6
MOTA	11761	CB	GLU C1078	72.2			5.458	1.00208.		6 6
ATOM ATOM	11762 11763	CG CD	GLU C1078 GLU C1078	71.5 72.3			6.631 7.123	1.00208.		6
ATOM	11764	OE1	GLU C1078	73.4			7.538	1.00208.		8
ATOM	11765	OE2	GLU C1078	71.7	51 54.	609 4'	7.090	1.00208.		8
MOTA	11766	C	GLU C1078	72.5			4.093	1.00186.		6
MOTA	11767	O N	GLU C1078 PRO C1079	73.2 72.7			3.249 4.225	1.00187. 1.00130.		8 7
ATOM ATOM	11768 11769	N CD	PRO C1079	71.8			4.936	1.00103.		6
MOTA	11770	CA	PRO C1079	73.6	73 61.	737 43	3.347	1.00129.	47	6
MOTA	11771	CB	PRO C1079	73.2			3.451	1.00103.		6
ATOM	11772	CG	PRO C1079	71.8 75.0			3.956 3.851	1.00103.		6 6
ATOM ATOM	11773 11774	C O	PRO C1079 PRO C1079	75.3			4.603	1.00128.		8
ATOM	11775	N	SER C1080	75.9			3.442	1.00111.		7
ATOM	11776	CA	SER C1080	77.3			3.853	1.00110.		6
MOTA	11777	CB	SER C1080	78.0 77.9			3.547 2.169	1.00111.		6 8
ATOM ATOM	11778 11779	OG C	SER C1080 SER C1080	77.9			3.113	1.00111.		6
ATOM	11780	0	SER C1080	78.4			3.688	1.00109.		8
ATOM	11781	N	VAL C1081	78.3			1.828	1.00103.		7
MOTA	11782	CA	VAL C1081	79.0			0.986 9.853	1.00101.		6 6
MOTA MOTA	11783 11784	CB CG1	VAL C1081 VAL C1081	79.8 80.6			9.000	1.00208.		6
ATOM	11785	CG2	VAL C1081	80.7			0.424	1.00208.		6
MOTA	11786	С	VAL C1081	77.8			0.364	1.00 99.		6
ATOM	11787	0	VAL C1081	76.9			9.835 0.458	1.00 99. 1.00 54.		8 7
ATOM ATOM	11788 11789	N CD	PRO C1082 PRO C1082	77.9 78.7			1.363	1.00 34.		6
ATOM	11790	CA	PRO C1082	76.8			9.861	1.00 52.		6
ATOM	11791	СВ	PRO C1082	76.8			0.699	1.00198.		6
ATOM	11792	CG	PRO C1082	78.3			1.026	1.00200.		6
MOTA MOTA	11793 11794	C 0	PRO C1082 PRO C1082	77.1 78.1			8.382 8.014	1.00 51. 1.00 51.		6 8
ATOM	11795	N	GLU C1083	76.2			7.540	1.00 56.		7
MOTA	11796	CA	GLU C1083	76.3	328 67.	242 3	6.097	1.00 55.		6
MOTA	11797	CB	GLU C1083	74.9			5.465	1.00190.		6
MOTA	11798 11799	CG CD	GLU C1083 GLU C1083	74.8 74.9			3.954 3.206	1.00192. 1.00193.		6 6
ATOM	11/99	OE1	GLU C1083	74.2			3.570	1.00194		8
ATOM	11801	OE2	GLU C1083	75.7	762 65.	764 3	2.244	1.00194.	.82	8
MOTA	11802	C	GLU C1083	76.8			5.719	1.00 53.		6
ATOM	11803 11804	N O	GLU C1083 SER C1084	77.3 76.5			4.643 6.599	1.00 53. 1.00 91.		8 7
ATOM ATOM	11804	CA	SER C1084 SER C1084	77.0			6.313	1.00 91.		6
ATOM	11806	CB	SER C1084	76.2	183 71.	953 3	7.129	1.00 63.	. 68	6
ATOM	11807	OG	SER C1084	74.8	310 71.	853 3	6.795	1.00 65	.09	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11808 11809 11810 11811 11812 11813 11814 11815 11816 11817 11820 11821 11822 11823 11824 11825 11826 11827 11828 11829 11830 11831 11832 11833 11834 11835	C O N CA CB CG1 CCA CB CG1 CCA CCB CCA CCB CCA CCB CCA CCB CCC CCA CCB CCCA CCB CCCA CCB CCCA CCB CCCA CCB CCCA CCB CCCA CCB CCA CCB CCCA CCCA CCB CCCA CCCA CCB CCCA CCCA CCB CCCA CCC	SER PHE PHE PHE PHE PHE PHE PHE PHE ALA ALA ALA VAL VAL VAL VAL VAL LEU LEU	C1084 C1084 C1085 C1085 C1085 C1085 C1085 C1085 C1085 C1085 C1086 C1086 C1086 C1086 C1086 C1087 C1087 C1087 C1087 C1088 C1088 C1088	78.479 79.224 78.903 80.304 80.544 81.844 82.457 82.427 83.629 83.597 84.197 81.195 82.272 80.729 81.484 80.845 81.615 82.555 80.690 80.763 79.392 79.498 78.877 81.282 81.570 82.097 81.884	71.168 71.583 70.873 71.045 70.506 70.954 72.134 70.213 72.563 70.637 71.811 70.314 70.796 69.154 68.344 66.966 69.002 68.729 69.885 70.535 70.536 71.144 69.122 71.958 72.652 72.406 73.753 74.307	36.593 35.706 37.819 38.209 39.623 40.245 39.849 41.270 40.466 41.890 41.489 37.234 36.894 36.782 35.838 35.714 34.454 33.708 34.108 32.813 32.122 30.741 32.026 32.930 31.929 34.145 34.290 35.699	1.00 90.21 1.00 90.86 1.00103.08 1.00100.39 1.00 70.97 1.00 71.55 1.00 71.72 1.00 72.44 1.00 71.44 1.00 71.86 1.00 71.39 1.00 98.75 1.00100.33 1.00 37.35 1.00 34.90 1.00 33.37 1.00 34.08 1.00 35.38 1.00 46.83 1.00 46.97 1.00 47.66 1.00 34.55 1.00 34.55 1.00 33.81 1.00 98.32 1.00 98.34 1.00 98.34 1.00 98.34	6876666666687666876668766
ATOM ATOM	11836 11837	CG CD1	LEU	C1088 C1088	82.332 81.606	75.769 76.670	35.855 34.873	1.00 17.77 1.00 17.28	6 6
ATOM	11838			C1088	82.065	76.227	37.262	1.00 18.02	6
MOTA	11839	C		C1088	83.582	73.689	34.009	1.00 99.79	6 8
ATOM	11840	0		C1088	84.134	74.546	33.323	1.00101.96 1.00 79.95	8 7
MOTA	11841	N		C1089 C1089	84.229 85.655	72.659 72.507	34.539 34.336	1.00 79.93	6
MOTA MOTA	11842 11843	CA CB		C1089	86.213	71.335	35.175	1.00 62.80	6
ATOM	11844	CG1		C1089	87.723	71.294	35.082	1.00 65.03	6
MOTA	11845	CG2		C1089	85.806	71.500	36.616	1.00 62.52	6
ATOM	11846	С		C1089	85.951	72.278	32.853	1.00 79.71	6
ATOM	11847	0		C1089	86.784	72.976	32.272	1.00 79.69	8
MOTA	11848	N		C1090	85.250	71.327	32.236		7
MOTA	11849	CA		C1090	85.479	71.010	30.827	1.00 80.44	6
ATOM	11850	CB		C1090	84.991	69.592	30.515	1.00 13.87	6
ATOM	11851	C		C1090	84.870	72.005	29.850	1.00 81.27 1.00 82.52	6 8
MOTA	11852	0		C1090 C1091	84.588 84.666	71.668 73.232	28.704 30.311	1.00 82.32	7
MOTA ATOM	11853 11854	N CA		C1091	84.126	74.305	29.469	1.00 28.33	6
ATOM	11855	CB		C1091	82.728	74.712	29.921	1.00 76.31	6
ATOM	11856	CG		C1091	81.608	74.061	29.146	1.00 77.14	6
ATOM	11857	CD		C1091	80.259	74.579	29.576	1.00 77.62	6
ATOM	11858	OE1		C1091	80.114	75.815	29.672	1.00 77.82	8
MOTA	11859	OE2		C1091	79.351	73.758	29.813	1.00 78.87	8
MOTA	11860	C		C1091	85.046	75.508	29.601	1.00 28.72	6
MOTA	11861	0		C1091	84.984	76.452	28.810	1.00 27.52	8 7
ATOM	11862	N		C1092	85.873	75.455	30.643 30.961	1.00 80.09 1.00 82.54	6
MOTA	11863	CA	тĘО	C1092	86.862	76.477	JU.901	1.00 02.34	U

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11864 11865 11866 11867 11868 11870 11871 11872 11873 11874 11875 11876 11877 11887 11888 11888 11888 11888 11888 11888 11889 11891 11892 11893 11894 11893 11895 11896 11897 11897 11898 11899 11900 11901 11902	CB CG CD1 CD2 C O N CA CB C CD N CA CB CC CD CC	LEU LEU CGLN GLN GLN GLN ALA ALA ALA ALA ALA ALA ALA ALA ALA A	C1092 C1092 C1092 C1092 C1092 C1093 C1093 C1093 C1093 C1093 C1093 C1094 C1094 C1094 C1094 C1095 C1095 C1095 C1095 C1095 C1095 C1096 C1096 C1097 C1097 C1097 C1097 C1097 C1097	87.006 85.982 85.982 86.313 89.037 88.300 89.478 89.389 89.788 89.725 90.607 88.357 88.275 90.607 88.357 88.275 88.275 88.275 88.275 88.275 88.275 88.275 88.275 88.275 88.275 88.275 88.275 88.377 88.377 86.714 87.074 91.561 91.394 92.768 93.721 93.965 93.721	76.608 77.409 76.931 78.902 75.989 76.784 74.666 74.027 72.507 72.057 70.603 69.723 74.336 74.336 74.397 74.514 74.888 76.156 76.371 77.052 78.362 79.389 80.297 79.464 81.305 78.307 79.335 77.090 77.340 78.068 76.911 77.281 79.874 80.214	32.486 33.314 34.770 33.235 30.342 29.962 30.244 29.659 29.858 31.307 31.471 30.801 32.375 28.164 27.555 27.579 26.168 25.734 25.937 24.901 26.795 27.608 26.801 26.795 27.265 27.443 27.729 27.265 27.443 27.460 27.887 29.319 29.589 30.237 31.634 32.082 31.113 31.765 30.738	1.00 54.50 1.00 53.94 1.00 52.07 1.00 54.02 1.00 84.64 1.00 69.69 1.00 70.75 1.00 73.27 1.00 75.10 1.00 76.28 1.00 77.68 1.00 71.47 1.00 71.47 1.00 71.73 1.00 80.43 1.00 81.50 1.00133.59 1.00 81.84 1.00 68.21 1.00 69.70 1.00115.57 1.00115.82 1.00115.43 1.00 70.83 1.00 70.83 1.00 70.83 1.00 119.87 1.00119.87 1.00119.87 1.00120.32 1.00120.32 1.00120.33 1.00 50.53 1.00 70.05 1.00 70.81 1.00 70.81	66666876668768766687666668766687666666
MOTA	11900	CG	LEU	C1097	90.549	79.187	31.113	1.00 70.05	6
			LEU	C1097	91.586	80.214	30.738	1.00 70.47	6
ATOM	11903 11904	C		C1097 C1097	92.333 91.460	75.991 75.151	32.434 32.259	1.00 52.35 1.00 53.22	6 8
ATOM ATOM	11904	O N		C1097	93.330	75.806	33.291	1.00110.12	7
MOTA	11906	CA	ASP	C1098	93.369	74.591	34.097	1.00110.77	6
ATOM ATOM	11907 11908	CB CG		C1098 C1098	94.808 94.885	74.174 72.805	34.418 35.100	1.00134.82 1.00136.59	6 6
ATOM	11909	OD1		C1098	94.194	72.603	36.120	1.00137.99	8
MOTA	11910	OD2		C1098	95.637	71.929	34.618	1.00137.11	8
${f MOTA}$	11911 11912	С О		C1098 C1098	92.618 92.992	74.887 75.794	35.389 36.137	1.00109.91 1.00110.36	6 8
MOTA	11913	N		C1099	91.554	74.132	35.647	1.00 34.21	7
MOTA	11914	CA		C1099	90.763	74.347	36.848	1.00 33.94	6
MOTA MOTA	11915 11916	CB CG1		C1099 C1099	89.252 88.458	74.325 74.607	36.530 37.780	1.00110.48 1.00111.53	6 6
ATOM	11917	CG2		C1099	88.925	75.361	35.470	1.00110.23	6
MOTA	11918	С	VAL	C1099	91.083	73.258	37.853	1.00 34.64	6
ATOM	11919	0	VAL	C1099	90.225	72.460	38.225	1.00 35.09	8

ATOM	11920	N	GLN	C1100	92.332	73.227	38.293	1.00 47.29	7
ATOM	11921	CA		C1100	92.741	72.219	39.253	1.00 48.51	6
MOTA	11922	СВ	GLN	C1100	94.199	72.437	39.681	1.00208.87	6
MOTA	11923	CG	GLN	C1100	95.220	71.846	38.706	1.00208.87	6
ATOM	11924	CD		C1100	96.653	71.976	39.195	1.00208.87	6
ATOM	11925	OE1		C1100	96.973	71.603	40.325	1.00208.87	8
MOTA	11926	NE2		C1100	97.527	72.493	38.339	1.00208.87	7
MOTA	11927	C		C1100	91.823	72.217	40.462	1.00 47.63	6
MOTA	11928	0		C1100	91.685	73.213	41.158	1.00 47.48	8
MOTA	11929 11930	N		C1101 C1101	91.190 90.286	71.082 70.942	40.700 41.820	1.00 68.00 1.00 67.53	7 6
ATOM ATOM	11930	CA CB		C1101	89.096	70.942	41.820	1.00 87.33	6
ATOM	11932	OG1		C1101	88.482	70.651	40.250	1.00 37.00	8
ATOM	11933	CG2		C1101	88.076	69.995	42.539	1.00 36.67	6
ATOM	11934	C		C1101	91.028	70.307	42.991	1.00 67.60	6
ATOM	11935	0		C1101	91.610	69.240	42.850	1.00 68.10	8
ATOM	11936	N	ALA	C1102	91.016	70.972	44.143	1.00 69.32	7
MOTA	11937	CA		C1102	91.705	70.460	45.326	1.00 69.08	6
MOTA	11938	CB		C1102	92.779	71.461	45.768	1.00 31.96	6
MOTA	11939	C		C1102	90.766	70.132	46.500	1.00 68.74	6
MOTA	11940	0		C1102	89.731	70.779	46.698	1.00 67.72	8
ATOM	11941	N		C1103 C1103	91.150	69.115 68.660	47.270 48.421	1.00 77.27 1.00 77.46	7 6
ATOM ATOM	11942 11943	CA CB		C1103	90.382 90.421	67.136	48.507	1.00 77.46	6
ATOM	11943	CG		C1103	90.062	66.474	47.196	1.00132.30	6
ATOM	11945	OD1		C1103	88.950	66.734	46.690	1.00133.76	8
ATOM	11946	OD2		C1103	90.892	65.697	46.671	1.00135.67	8
ATOM	11947	С		C1103	90.928	69.243	49.715	1.00 77.10	6
ATOM	11948	0	ASP	C1103	92.027	69.783	49.747	1.00 77.24	8
ATOM	11949	N		C1104	90.140	69.120	50.776	1.00 42.97	7
ATOM	11950	CA		C1104	90.485	69.617	52.102	1.00 43.55	6
ATOM	11951	CB		C1104	90.324	68.490	53.128	1.00 98.33	6
ATOM	11952 11953	CG CD		C1104 C1104	88.952 89.004	67.824 66.358	53.117 53.521	1.00 99.43 1.00 99.94	6 6
MOTA MOTA	11953	OE1		C1104 C1104	89.445	66.060	54.652	1.00 99.94	8
ATOM	11955	OE2		C1104	88.602	65.502	52.699	1.00100.38	8
ATOM	11956	C		C1104	91.900	70.158	52.174	1.00 44.00	6
ATOM	11957	Ō		C1104	92.115	71.361	52.119	1.00 43.19	8
ATOM	11958	N		C1105	92.858	69.242	52.267	1.00 86.07	7
ATOM	11959	CA		C1105	94.272	69.570	52.388	1.00 88.23	6
ATOM	11960	CB		C1105	95.068	68.291	52.644	1.00 96.16	6
ATOM	11961	C		C1105	94.911	70.352	51.242	1.00 89.73	6
MOTA	11962	0		C1105	96.135	70.408	51.153	1.00 90.32 1.00 86.54	8 7
ATOM ATOM	11963 11964	N CA		C1106 C1106	94.099 94.603	70.947 71.743	50.373 49.246	1.00 88.53	6
ATOM	11965	CB		C1106	95.490	72.881	49.763	1.00102.54	6
MOTA	11966	CG		C1106	95.689	73.985	48.738	1.00104.21	6
MOTA	11967			C1106	95.933	73.683	47.548	1.00104.19	8
MOTA	11968	OD2	ASP	C1106	95.608	75.165	49.135	1.00105.52	8
MOTA	11969	С		C1106	95.393	70.930	48.226	1.00 89.27	6
MOTA	11970	0		C1106	95.259	71.115	47.022	1.00 89.36	8
MOTA	11971	N		C1107	96.223	70.029	48.725	1.00 70.86	7
MOTA	11972	CA		C1107	97.051	69.192	47.875	1.00 72.87	6
ATOM ATOM	11973 11974	CB CG		C1107 C1107	98.479 99.510	69.145 68.690	48.443 47.421	1.00208.73 1.00208.87	6 6
ATOM	11974	OD1		C1107	99.510	67.500	47.421	1.00208.87	8
771 OT1	11/10	ODI	7 77/14	C110/	JJ. 007	0,.500	1,.101	1.00200.07	0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	11976 11977 11978 11979 11980 11981 11982 11983 11984 11985 11986 11987 11988	ND2 C O N CD CA CB CG C O N CA	ASN PRO PRO PRO PRO PRO PRO VAL VAL	C1107 C1107 C1107 C1108 C1108 C1108 C1108 C1108 C1108 C1108 C1109 C1109 C1109	1	00.252 96.506 97.271 95.185 94.241 94.694 93.555 93.788 94.168 93.570 94.404 93.978 95.182	59.644 57.770 56.835 57.574 58.298 56.211 56.082 57.206 56.195 55.218 57.310 57.531 57.519	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	46.867 47.684 47.437 47.852 48.713 47.643 48.658 49.627 46.215 45.772 45.523 44.149 43.174	1. 1. 1. 1. 1. 1.	.00208.87 .00 74.17 .00 73.99 .00193.02 .00135.94 .00193.97 .00135.66 .00136.16 .00194.79 .00196.01 .00 53.75 .00 53.98 .00138.02	7 6 8 7 6 6 6 6 6 6 8 7 6 6
ATOM ATOM	11989 11990	CG1 CG2		C1109 C1109		95.920 94.704	56.201 57.771		13.266 11.751		.00138.58 .00138.25	6 6
ATOM	11991	C		C1109		92.928	6.530		13.689		.00 54.50	6
MOTA	11992	0		C1109		93.217	55.357		13.465		.00 54.78 .00156.36	8 7
ATOM	11993	N		C1110		91.698 90.553	57.016 56.221		13.561 13.135		.00156.36	6
ATOM ATOM	11994 11995	CA CB		C1110 C1110		89.468	57.132		12.642		.00 33.55	6
ATOM	11996	С		C1110		90.858	55.197		12.061		.00157.67	6
MOTA	11997	Ö		C1110		91.844	55.307	4	11.334		.00158.25	8
ATOM	11998	N		C1111		89.983	54.206		11.959		.00134.81	7
MOTA	11999	CA		C1111		90.130	53.154		10.967		.00135.66	6
ATOM	12000	CB		C1111		90.197 90.488	51.762		41.639 40.600		.00184.71 .00185.47	6 6
ATOM	12001 12002	CG1 CG2		C1111 C1111		91.278	51.765		42.712		.00184.30	6
ATOM	12002	CGZ		C1111		88.936	53.219		40.021		.00136.00	6
ATOM	12003	Õ		C1111		88.652	52.273		39.286		.00136.25	8
ATOM	12005	N	PHE	C1112		88.248	54.357		40.042		.00208.87	7
MOTA	12006	CA		C1112		87.077	54.584		39.198		.00208.87	6
MOTA	12007	CB		C1112		86.715	56.066 56.397		39.199 40.084		.00108.43	6 6
MOTA	12008 12009	CG CD1		C1112 C1112		85.570 85.651	56.184		41.452		.00103.00	6
MOTA MOTA	12010	CD1	PHE	C1112		84.395	56.901		39.548		.00109.81	6
ATOM	12011	CE1		C1112		84.569	56.465		42.281	1	.00109.57	6
ATOM	12012	CE2	PHE	C1112		83.306	67.185		40.364		.00110.53	6
ATOM	12013	CZ		C1112		83.392	56.967		41.736		.00110.35	6
ATOM	12014	C		C1112		87.214	64.119 63.986		37.758 37.232		.00208.87	6 8
MOTA	12015 12016	O N		C1112 C1113		88.323 86.066	53.890		37.232		.00208.57	7
MOTA MOTA	12010	CA		C1113		86.011	63.437		35.744		.00147.45	6
MOTA	12017	CB		C1113		86.270	64.612		34.795	1	.00 68.95	6
ATOM	12019	CG	GLU	C1113		85.067	65.521		34.634		.00 66.74	6
ATOM	12020	CD		C1113		85.388	66.774		33.864		.00 67.07	6
ATOM	12021	OE1		C1113		85.761	66.675		32.674 34.458		.00 68.90 .00 66.89	8 8
ATOM	12022	OE2		C1113 C1113		85.272 86.966	67.865 62.283		35.459		.00147.59	6
ATOM ATOM	12023 12024	C O		C1113		87.214	61.933		34.306		.00147.97	8
ATOM	12025	N		C1114		87.502	61.696		36.523		.00180.49	7
ATOM	12026	CA		C1114		88.386	60.561		36.364		.00179.91	6
MOTA	12027	C	GLY	C1114		87.451	59.414		36.050		.00179.79	6
MOTA	12028	0		C1114		87.791	58.242		36.202		.00180.67	8 7
MOTA	12029	N		C1115 C1115		86.251 85.181	59.788 58.864		35.613 35.260		.00165.01	6
ATOM ATOM	12030 12031	CA CB		C1115		85.577	58.003		34.054		.00 69.73	6
AIOM	TC021	CD	٧٠٠٠	C111J		55.577						-

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12033 12033 12033 12033 12035 12036 12037 12038 12040 12041 12042 12044 12044 12045 12045 12053 12053 12055 12055 12055 12066 12066 12066 12067 12077	CG CD1 CD2 C O OXT C C C C O N C C C C C O N C C C C C O N C C C C	LEU C1 LEU C1 LYS D D D D D D D D D D D D D D D D D D D	11111111111111111111111111111111111111	86.075 85.5604 84.822 83.697 85.673 88.513 89.024 90.540 91.089 92.540 91.089 92.5420 91.089 92.6824 96.6997 86.6997 86.9970 86.353 86.3135 86.3532 86.3537 86.3737 87.3748 86.3737 87.3748 87.37477 87.3748 87.3748 87.3748 87.3747 87.3748 87.3747 87.37477 87.3748 87.3747 87.3	58.719 57.9762 57.9762 57.9762 57.9762 57.3317 63.151 63.665 63.5798 63.5798 63.5798 63.5798 63.665 63.665 63.635 63.665 63.722 64.2249 65.4998 65.4998 67.725 68.3725 69.9327 70.4861 67.7327 68.3337 74.615 74.75	32.790 31.573 32.749 36.438 36.959 36.834 49.388 49.475 50.820 47.5730 50.820 47.574 46.452 47.1074 48.043 49.098 47.887 48.405 47.967 48.691 48.927 48.691 50.944 50.944 50.967 48.750 50.944 51.530 53.275 53.194 54.370	1.00 68.63 1.00 67.50 1.00 68.11 1.00165.21 1.00165.67 1.00 71.04 1.00119.73 1.00120.29 1.00121.57 1.00121.53 1.00 65.05 1.00 65.91 1.00 63.59 1.00 63.59 1.00 62.71 1.00171.20 1.00 62.71 1.00171.20 1.00 62.71 1.00 60.59 1.00 88.37 1.00 88.36 1.00 97.05 1.00 88.37 1.00 89.18 1.00 73.00 1.00 72.03 1.00108.72 1.00110.80 1.00113.64 1.00115.19 1.00115.84 1.00 70.72 1.00115.84 1.00 70.72 1.00115.84 1.00 70.72 1.00115.84 1.00 70.72 1.00115.84 1.00 70.72 1.00115.84 1.00 70.72 1.00 70.74 1.00 70.75 1.00 70.74 1.00 70.75 1.00 70.55 1.00 70.75 1.00 70.55 1.00 70.75 1.00 7	666688666676876766687666687666676776876668766687
MOTA	12079	CG2	VAL D	8	85.607	74.980	42.279	1.00 60.49	6
MOTA	12082	N	ALA D	9	89.773	76.527	42.317		7
MOTA	12083	CA	ALA D	9	91.031	77.126	41.880	1.00 41.38	6
ATOM	12084 12085	CB C	ALA D ALA D	9 9	92.188 91.325	76.489 77.086	42.640 40.376	1.00116.73 1.00 41.12	6 6
ATOM	12086	0	ALA D	9	91.858	76.100	39.852	1.00 40.67	8
ATOM	12087	N	ILE D	10	90.979	78.175	39.695	1.00 55.36	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12088 12089 12090 12091 12092 12093 12094 12095 12096 12097 12098 12099 12100 121101 12102 12103 12104 12105 121106 12117 12111 12112 12113 12114 12115 12116 12117 12118 121120 12121 12122 12123 12124 12125 12126 12137 12138 12131 12131 12131 12131 12131 12133 12134 12133	CA CB2 CG1 C O N CA CB CCC C O N CCCC C O N CCCC C O N CCCC C O N CCCC CCC		10000011111112222222223333331444444555555666667777778888888	91.232 90.593 91.315 90.667 89.941 92.752 93.466 93.259 94.696 95.339 95.424 96.624 96.747 97.829 97.829 97.829 97.829 97.125 98.777 97.862 98.777 97.862 98.177 97.97.97 100.327 100.327 100.327 100.555 99.943 99.943 99.943 99.349 99.349 99.349 101.736 103.687 100.587 100.587 100.587 100.586 97.344 96.308 97.349 97.347 96.308 97.349 97.349 97.349 97.349 97.349 97.349 97.349 97.349	78.315 79.61825 79.6258 78.6530 78.6530 78.3317 78.3317 77.3413 77.3440 77.34440 77.	38.265 37.711 38.284 36.182 35.503 38.147 36.782 37.208 39.147 36.782 37.36.351 34.693 34.693 31.7463 32.463 32.463 32.463 32.463 32.466 32.939 33.673 30.431 29.885 29.885 29.885 29.885 20.286.645 29.886	1.00 55.98 1.00 52.97 1.00 53.12 1.00 52.23 1.00 52.81 1.00 57.26 1.00 58.01 1.00 59.14 1.00 60.37 1.00149.08 1.00 61.39 1.00 60.91 1.00 99.18 1.00 99.22 1.00 45.78 1.00 45.71 1.00 45.75 1.00 46.63 1.00 99.44 1.00 99.97 1.00 88.25 1.00 88.08 1.00145.76 1.00 87.79 1.00 80.98 1.00 87.79 1.00 80.98 1.00 81.18 1.00 81.33 1.00 82.84 1.00117.32 1.00 81.74 1.00 82.29 1.00116.72 1.00117.32 1.00 82.29 1.00116.72 1.00117.32 1.00 82.29 1.00116.72 1.00117.32 1.00 82.29 1.00116.72 1.00117.32 1.00 82.29 1.00116.72 1.00117.32 1.00 82.29 1.00116.72 1.0042.69 1.00 43.80 1.00 43.80 1.00 43.80 1.00 43.80 1.00 45.88 1.00 45.88 1.00 45.88	66666687666876666876668766887666668766687666876668
MOTA MOTA	12137 12138	CA CB	ILE D ILE D ILE D	18 18	96.284 96.308	71.117 72.111	26.865 25.663	1.00 42.69 1.00 45.88	666666
ATOM	12143	0	ILE D	18	95.489	68.885	26.413	1.00 44.47	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12144 12145 12146 12147 12148 12149 12150 12151 12152	N CA CB CG CD NE CZ NH1 NH2	ARG D	19 19 19 19 19 19	97.651 97.964 99.464 100.022 101.551 102.100 101.877 101.116 102.400	69.337 68.002 67.866 68.906 68.848 70.047 70.402 69.647 71.526	25.923 25.417 25.129 24.162 24.057 23.422 22.159 21.377 21.678	1.00 69.82 1.00 72.40 1.00 92.42 1.00 91.60 1.00 90.18 1.00 89.74 1.00 90.69 1.00 91.13 1.00 91.04	766667677
ATOM ATOM	12153 12154	C 0	ARG D ARG D	19 19	97.573 97.132	66.973 65.881	26.452 26.106	1.00 75.35 1.00 76.51	6 8
ATOM ATOM	12155 12156	N CA	ALA D ALA D	20 20	97.735 97.413	67.333 66.438	27.723 28.832	1.00 82.12 1.00 86.47	7 6
ATOM	12157	СВ	ALA D	20	97.652	67.145	30.167	1.00 86.23	6
ATOM	12158	C	ALA D	20 20	95.988 95.790	65.896 64.681	28.771 28.654	1.00 89.87 1.00 89.90	6 8
ATOM	12159 12160	O N	ALA D TRP D	21	95.790	66.790	28.849	1.00 89.90	7
ATOM	12161	CA	TRP D	21	93.604	66.367	28.805	1.00100.95	6
ATOM	12162	СВ	TRP D	21	92.665	67.406	29.431	1.00153.88	6
ATOM	12163	CG	TRP D	21	93.301	68.494	30.227	1.00155.88	6
ATOM	12164	CD2	TRP D	21	93.258	69.891	29.931	1.00157.07	6
ATOM	12165	CE2 CE3	TRP D	21 21	93.935 92.710	70.561 70.644	30.971 28.883	1.00158.45 1.00156.76	6 6
ATOM	12166 12167	CE3	TRP D	21	93.986	68.371	31.401	1.00150.76	6
ATOM	12168	NE1	TRP D	21	94.369	69.610	31.857	1.00158.44	7
ATOM	12169	CZ2	TRP D	21	94.078	71.952	30.996	1.00159.35	6
ATOM	12170	CZ3	TRP D	21	92.853	72.027	28.908	1.00157.43	6
MOTA	12171	CH2	TRP D	21	93.532	72.666	29.958	1.00158.88	6
MOTA	12172 12173	С О	TRP D	21 21	93.140 92.388	66.123 65.187	27.379 27.115	1.00103.62 1.00104.42	6 8
ATOM ATOM	12173 12174	N	ALA D	22	93.585	66.980	26.467	1.00208.87	7
MOTA	12175	CA	ALA D	22	93.211	66.885	25.063	1.00208.87	6
MOTA	12176	СВ	ALA D	22	94.115	67.773	24.242	1.00126.20	6
MOTA	12177	C	ALA D	22	93.233	65.456	24.518	1.00208.87	6
MOTA	12178	0	ALA D	22	92.762	65.197	23.409	1.00208.87	8
ATOM ATOM	12179 12180	N CA	ALA D ALA D	23 23	93.781 93.847	64.531 63.132	25.297 24.897	1.00191.58 1.00193.09	7 6
ATOM	12180	CB	ALA D	23	92.431	62.549	24.795	1.00133.03	6
MOTA	12182	C	ALA D	23	94.586	62.946	23.578	1.00194.46	6
MOTA	12183	0	ALA D	23	94.602	61.846	23.029	1.00195.08	8
MOTA	12184	N	GLY D	24	95.193	64.021	23.076	1.00208.87	7
MOTA	12185	CA	GLY D	24	95.935	63.960 62.924	21.824 20.842	1.00208.87 1.00208.87	6
ATOM ATOM	12186 12187	C O	GLY D GLY D	$\begin{array}{c} 24 \\ 24 \end{array}$	95.422 96.177	62.924	20.842	1.00208.87	6 8
ATOM	12188	N	ALA D	25	94.129	62.997	20.546	1.00208.87	7
ATOM	12189	CA	ALA D	25	93.505	62.053	19.634	1.00208.87	6
MOTA	12190	СВ	ALA D	25	92.338	61.368	20.326	1.00128.06	6
ATOM	12191	C	ALA D	25	93.025	62.712	18.352	1.00208.87	6
ATOM	12192	0	ALA D	25	92.908 92.747	62.054 64.009	17.318 18.419	1.00208.87 1.00180.25	8 7
ATOM	12193 12194	N CA	ALA D ALA D	26 26	92.260	64.726	17.249	1.00180.23	6
ATOM	12195	CB	ALA D	26	90.986	65.473	17.587	1.00 89.62	6
ATOM	12196	C	ALA D	26	93.264	65.694	16.664	1.00180.34	6
ATOM	12197	0	ALA D	26	93.477	66.777	17.206	1.00180.69	8
ATOM	12198	N	GLU D	27	93.877	65.305	15.551	1.00208.87	7 6
MOTA	12199	CA	GLU D	27	94.825	66.180	14.879	1.00208.87	0

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ATOM	12200	CB	GLU D	27	95.582	65.432	13.777	1.00183.77	6
ATOM	12201	CG	GLU D	27	96.682	66.265	13.127	1.00184.01	6
ATOM	12202	CD	GLU D	27	97.155	65.703	11.798	1.00184.16	6
MOTA	12203	OE1	GLU D	27	97.663	64.563	11.769	1.00184.40	8
MOTA	12203	OE2	GLU D	27	97.016	66.411	10.777	1.00184.01	8
			GLU D	27	93.926	67.241	14.260	1.00208.87	6
ATOM	12205	C							
ATOM	12206	0	GLU D	27	94.363	68.064	13.452	1.00208.87	8
ATOM	12207	N	ALA D	28	92.656	67.187	14.661	1.00139.10	7
ATOM	12208	CA	ALA D	28	91.616	68.098	14.206	1.00138.27	6
ATOM	12209	CB	ALA D	28	92.159	69.519	14.113	1.00192.29	6
ATOM	12210	С	ALA D	28	91.076	67.649	12.859	1.00137.57	6
ATOM	12211	0	ALA D	28	90.008	68.088	12.438	1.00137.17	8
ATOM	12212	N	ALA D	29	91.822	66.767	12.197	1.00141.79	7
MOTA	12213	CA	ALA D	29	91.445	66.241	10.889	1.00140.97	6
MOTA	12214	CB	ALA D	29	92.200	64.940	10.619	1.00 83.12	6
	12215	C	ALA D	29	89.939	66.014	10.771	1.00140.41	6
MOTA									8
ATOM	12216	0	ALA D	29	89.433	64.938	11.100	1.00140.48	
MOTA	12217	N	ALA D	30	89.228	67.038	10.301	1.00111.24	7
MOTA	12218	CA	ALA D	30	87.780	66.963	10.136	1.00110.84	6
MOTA	12219	CB	ALA D	30	87.103	66.857	11.496	1.00123.74	6
MOTA	12220	С	ALA D	30	87.212	68.153	9.370	1.00110.87	6
MOTA	12221	0	ALA D	30	87.906	69.136	9.108	1.00110.89	8
MOTA	12222	N	ALA D	31	85.936	68.051	9.018	1.00177.41	7
MOTA	12223	CA	ALA D	31	85.248	69.102	8.283	1.00177.79	6
ATOM	12224	CB	ALA D	31	85.386	68.870	6.785	1.00208.87	6
MOTA	12225	Ċ	ALA D	31	83.779	69.110	8.677	1.00178.04	6
MOTA	12226	Õ	ALA D	31	83.409	68.308	9.560	1.00177.79	8
MOTA	12227	OXT	ALA D	31	83.019	69.916	8.102	1.00208.87	8
MOTA	12228	CB	ALA E	69	80.302	61.345	2.995	1.00182.41	6
			ALA E	69	79.572	61.683	5.364	1.00208.52	6
ATOM	12229	C						1.00208.79	8
MOTA	12230	0	ALA E	69	78.367	61.590	5.600		
ATOM	12231	N	ALA E	69	79.514	59.422	4.332	1.00208.62	7
MOTA	12232	CA	ALA E	69	80.245	60.721	4.389	1.00208.78	6
ATOM	12233	N	ALA E	70	80.368	62.594	5.927	1.00208.87	7
MOTA	12234	CA	ALA E	70	79.908	63.616	6.875	1.00208.87	6
ATOM	12235	CB	ALA E	70	78.485	64.075	6.521	1.00107.45	6
MOTA	12236	С	ALA E	70	79.978	63.222	8.354	1.00208.87	6
MOTA	12237	Ο	ALA E	70	80.018	64.093	9.224	1.00208.87	8
ATOM	12238	N	ALA E	71	79.995	61.923	8.646	1.00143.28	7
ATOM	12239	CA	ALA E	71	80.070	61.471	10.035	1.00141.93	6
ATOM	12240	СВ	ALA E	71	79.653	60.015	10.143	1.00107.52	6
ATOM	12241	C	ALA E	71	81.487	61.646	10.553	1.00141.34	6
ATOM	12242	Ö	ALA E	71	81.786	61.303	11.695	1.00141.79	8
ATOM	12243	N	ALA E	72	82.353	62.164	9.685	1.00 64.01	7
	12243 12244	CA	ALA E	72	83.751	62.429	10.004	1.00 63.37	6
ATOM				72	83.839	63.257	11.280	1.00143.16	6
MOTA	12245	CB	ALA E						6
ATOM	12246	C	ALA E	72	84.698	61.229	10.108	1.00 63.18	0
ATOM	12247	0	ALA E	72	84.348	60.154	10.601	1.00 62.80	8
MOTA	12248	N	ALA E	73	85.915	61.453	9.628	1.00142.28	7
MOTA	12249	CA	ALA E	73	86.979	60.463	9.659	1.00142.92	6
MOTA	12250	CB	ALA E	73	87.570	60.284	8.267	1.00109.50	6
MOTA	12251	С	ALA E	73	88.011	61.064	10.603	1.00143.50	6
MOTA	12252	0	ALA E	73	88.364	62.238	10.468	1.00144.20	8
MOTA	12253	N	ALA E	74	88.497	60.275	11.557	1.00 97.91	7
ATOM	12254	CA	ALA E	74	89.461	60.793	12.523	1.00 98.24	6
ATOM	12255	CB	ALA E	74	90.786	61.098	11.839	1.00175.06	6
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ATOM	12256	С	ALA E	74	88.848	62.070	13.101	1.00 98.48	6
MOTA	12257	0	ALA E	74	89.434	63.153	13.029	1.00 98.61	8
MOTA	12258	\mathbf{N}	ALA E	75	87.643	61.923	13.653	1.00172.01	7
MOTA	12259	CA	ALA E	75	86.902	63.032	14.249	1.00172.44	6
MOTA	12260	CB	ALA E	75	86.783	64.175	13.246	1.00 96.09	6
MOTA	12261	С	ALA E	75	85.509	62.579	14.685	1.00172.83	6
MOTA	12262	0	ALA E	75	85.037	61.516	14.281	1.00172.95	8
MOTA	12263	N	ALA E	76	84.866	63.397	15.515	1.00 85.70	7
MOTA	12264	CA	ALA E	76	83.520	63.136	16.019	1.00 85.45	6
MOTA	12265	CB	ALA E	76	82.505	63.323	14.902	1.00203.01	6
MOTA	12266	С	ALA E	76	83.344	61.763	16.652	1.00 85.07	6
MOTA	12267	0	ALA E	76	82.236	61.400	17.041	1.00 84.31	8
ATOM	12268	\mathbf{N}	ALA E	77	84.433	61.004	16.755	1.00121.96	7
MOTA	12269	CA	ALA E	77	84.394	59.664	17.341	1.00122.45	6
ATOM	12270	CB	ALA E	77	83.399	58.797	16.587	1.00143.70	6
MOTA	12271	С	ALA E	77	85.770	59.011	17.317	1.00122.59	6
MOTA	12272	0	ALA E	77	86.629	59.392	16.522	1.00122.76	8
ATOM	12273	N	ALA E	78	85.957	58.019	18.187	1.00143.65	7
MOTA	12274	CA	ALA E	78	87.214	57.286	18.314	1.00143.63	6
ATOM	12275	CB	ALA E	78	87.736	56.879	16.938	1.00174.88	6
MOTA	12276	C	ALA E	78	88.255	58.129	19.053	1.00143.46	6
ATOM	12277	0	ALA E	78	89.155	57.594	19.704	1.00143.75	8
ATOM	12278	N	ALA E	79	88.115	59.450	18.949	1.00120.63	7
ATOM	12279	CA	ALA E	79	89.011	60.405	19.607	1.00120.05	6
MOTA	12280	CB	ALA E	79	89.515	61.440	18.592	1.00107.86 1.00119.78	6 6
MOTA	12281	C	ALA E	79 70	88.253	61.106	20.738 21.604	1.00119.78	8
MOTA	12282	0	ALA E	79 80	88.852 86.930	61.741 60.978	20.703	1.00119.41	7
ATOM	12283 12284	N	ALA E ALA E	80	86.030	61.572	21.685	1.00149.38	6
ATOM ATOM	12285	CA CB	ALA E ALA E	80	85.506	62.924	21.152	1.00 48.26	6
ATOM	12286	CD	ALA E	80	84.870	60.587	21.875	1.00149.79	6
ATOM	12287	Ö	ALA E	80	83.705	60.961	21.751	1.00150.37	8
ATOM	12288	N	ALA E	81	85.210	59.333	22.173	1.00175.59	7
ATOM	12289	CA	ALA E	81	84.242	58.248	22.355	1.00174.88	6
ATOM	12290	CB	ALA E	81	83.090	58.682	23.232	1.00102.84	6
ATOM	12291	Ċ	ALA E	81	83.710	57.826	21.002	1.00174.79	6
ATOM	12292	Ō	ALA E	81	84.461	57.772	20.030	1.00175.14	8
ATOM	12293	N	ALA E	82	82.411	57.541	20.932	1.00208.39	7
ATOM	12294	CA	ALA E	82	81.819	57.143	19.662	1.00208.06	6
ATOM	12295	CB	ALA E	82	82.598	55.974	19.083	1.00140.64	6
ATOM	12296	С	ALA E	82	80.336	56.795	19.683	1.00207.58	6
MOTA	12297	0	ALA E	82	79.872	56.028	20.522	1.00206.90	8
ATOM	12298	N	ALA E	83	79.609	57.366	18.727	1.00128.47	7
ATOM	12299	CA	ALA E	83	78.181	57.123	18.526	1.00128.25	6
MOTA	12300	CB	ALA E	83	78.002	55.788	17.802	1.00139.10	6
MOTA	12301	C	ALA E	83	77.237	57.183	19.734	1.00128.40	6
MOTA	12302	0	ALA E	83	76.021	57.207	19.553	1.00128.17	8
ATOM	12303	N	ALA E	84	77.774	57.199	20.951	1.00208.87	7
MOTA	12304	CA	ALA E	84	76.942	57.266	22.152	1.00208.87	6
ATOM	12305	СВ	ALA E	84	75.840	56.175	22.099	1.00 40.04	6 6
MOTA	12306	C	ALA E	84	77.761 79.000	57.143 57.130	23.446 23.411	1.00208.87 1.00208.87	8
MOTA	12307 12308	O N	ALA E ALA E	84 85	79.000	57.130	23.411 24.567	1.00208.87	7
MOTA MOTA	12308	CA	ALA E	85	77.561	56.942	25.941	1.00144.31	6
ATOM	12310	CB	ALA E	85	78.902	56.191	25.964	1.00145.76	6
ATOM	12311	C	ALA E	85	77.726	58.355	26.502	1.00133.45	6
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ATOM	12312	0	ALA E	85		.879	59.302	25.732	1.00143.42	8
MOTA	12313	N	ALA E	86		7.675	58.495	27.827	1.00208.87	7
ATOM	12314 12315	CA CB	ALA E ALA E	86 86		7.817 3.391	59.792 59.596	28.498 29.899	1.00208.87 1.00116.43	6 6
ATOM ATOM	12315	СР	ALA E	86		3.679	60.793	27.736	1.00208.87	6
ATOM	12317	Õ	ALA E	86		3.210	61.463	26.816	1.00208.87	8
ATOM	12318	Ň	ALA E	87		.947	60.901	28.115	1.00117.66	7
ATOM	12319	CA	ALA E	87	80	.820	61.845	27.434	1.00115.28	6
MOTA	12320	CB	ALA E	87		.333	63.261	27.681	1.00199.23	6
MOTA	12321	C	ALA E	87		2.277	61.719	27.842	1.00113.56	6
MOTA	12322	0	ALA E	87		2.892	60.678	27.633	1.00113.09	8 7
ATOM	12323 12324	N CA	ALA E ALA E	88 88		2.820 1.219	62.781 62.806	28.432 28.849	1.00 77.12 1.00 74.14	6
ATOM ATOM	12324	CB	ALA E	88		1.552	61.595	29.713	1.00 49.92	6
ATOM	12326	C	ALA E	88		5.060	62.795	27.584	1.00 72.75	6
ATOM	12327	Ō	ALA E	88		.512	62.787	26.486	1.00 72.56	8
ATOM	12328	N	ALA E	89		5.380	62.807	27.741	1.00101.01	7
ATOM	12329	CA	ALA E	89		7.295	62.813	26.603	1.00 99.71	6
ATOM	12330	CB	ALA E	89		5.644	62.084	25.421	1.00 13.87	6
ATOM	12331 12332	C 0	ALA E ALA E	89 89		7.612 7.189	64.276 65.177	26.247 26.963	1.00 98.29 1.00 99.51	6 8
ATOM	12332	N	ALA E ALA E	90		3.352	64.526	25.165	1.00 50.46	7
ATOM	12333	CA	ALA E	90		3.661	65.904	24.771	1.00 46.80	6
ATOM	12335	CB	ALA E	90		.499	66.568	25.856	1.00 36.40	6
MOTA	12336	С	ALA E	90		344	66.039	23.403	1.00 44.15	6
MOTA	12337	0	ALA E	90		.836	65.066	22.854	1.00 43.39	8
MOTA	12338	N	ALA E	91		3.370	67.251	22.854	1.00 67.98	7
MOTA	12339	CA	ALA E	91 91		9.980 9.032	67.489 68.300	21.544 20.698	1.00 66.57 1.00 35.47	6 6
MOTA MOTA	12340 12341	CB C	ALA E ALA E	91		.343	68.191	21.645	1.00 55.47	6
MOTA	12342	Ö	ALA E	91		.499	69.115	22.440	1.00 64.94	8
MOTA	12343	Ň	ALA E	92		2.315	67.777	20.825	1.00 58.67	7
MOTA	12344	CA	ALA E	92		3.670	68.348	20.887	1.00 57.66	6
MOTA	12345	CB	ALA E	92		1.676	67.247	21.312	1.00 13.87	6
ATOM	12346	C	ALA E	92		1.239	69.071	19.669	1.00 57.31	6
ATOM	12347 12348	O	ALA E ALA E	92 93		3.452 3.415	68.999 69.774	19.460 18.889	1.00 57.49 1.00 47.40	8 7
MOTA MOTA	12340	N CA	ALA E	93		3.925	70.479	17.697	1.00 47.40	6
MOTA	12350	CB	ALA E	93		2.923	71.557	17.234	1.00 13.87	6
MOTA	12351	C	ALA E	93		5.302	71.101	17.980	1.00 46.65	6
MOTA	12352	0	ALA E	93		5.393	72.209	18.513	1.00 46.91	8
MOTA	12353	N	ALA E	94		5.359	70.367	17.611	1.00 34.26	7
ATOM	12354	CA	ALA E	94		7.763	70.756	17.844	1.00 35.14	6
MOTA MOTA	12355 12356	CB C	ALA E ALA E	94 94		3.699 3.287	69.539 71.979	17.598 17.089	1.00 36.50 1.00 36.41	6 6
ATOM	12357	0	ALA E	94		9.498	72.190	17.012	1.00 30.41	8
ATOM	12358	N	ALA E	95		7.367	72.788	16.566	1.00101.08	7
ATOM	12359	CA	ALA E	95	97	7.703	74.011	15.838	1.00104.48	6
MOTA	12360	СВ	ALA E	95		3.002	75.154	16.844	1.00 54.02	6
ATOM	12361	C	ALA E	95		3.897	73.782	14.917	1.00106.91	6
ATOM	12362	O N	ALA E	95 96		9.141 9.623	72.653 74.854	14.491 14.601	1.00108.92 1.00105.52	8 7
ATOM ATOM	12363 12364	N CA	ALA E ALA E	96		0.809	74.764	13.748	1.00103.32	6
ATOM	12365	CB	ALA E	96).450	74.181	12.398	1.00 13.87	6
ATOM	12366	C	ALA E	96	101	L.514	76.099	13.553	1.00108.62	6
ATOM	12367	Ο	ALA E	96	101	L.116	76.910	12.715	1.00108.93	8

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ATOM	12368	N	ALA E 97	102.567	76.309	14.336	1.00128.48	7
MOTA	12369	CA	ALA E 97	103.372	77.521	14.266	1.00129.82	6
MOTA	12370	CB	ALA E 97	104.147	77.543	12.958	1.00134.57	6
MOTA	12371	С	ALA E 97	102.559	78.802	14.406	1.00130.98	6
ATOM	12372	0	ALA E 97	102.624	79.685	13.551	1.00130.80	8
ATOM	12373	N	ALA E 98	101.802	78.907	15.493	1.00116.28	7
ATOM	12374	CA	ALA E 98	100.989	80.091	15.727	1.00117.99	6
ATOM	12375	CB	ALA E 98	99.826	80.113	14.752	1.00 87.41	6
ATOM	12376	C	ALA E 98	100.481	80.186	17.164	1.00119.35	6
ATOM	12377	0	ALA E 98	100.957	79.471	18.050	1.00119.68	8
ATOM	12377	N		99.517	81.081	17.381	1.00 92.06	7
					81.312			
ATOM	12379	CA	ALA E 99	98.921		18.700	1.00 93.57	6
ATOM	12380	СB	ALA E 99	99.965	81.858	19.655	1.00165.12	6
ATOM	12381	C	ALA E 99	97.754	82.294	18.600	1.00 94.85	6
MOTA	12382	0	ALA E 99	97.259	82.568	17.510	1.00 95.31	8
ATOM	12383	Ŋ	ALA E 100	97.323	82.839	19.734	1.00113.85	7
MOTA	12384	CA	ALA E 100	96.203	83.772	19.730	1.00114.80	6
MOTA	12385	CB	ALA E 100	94.925	83.021	19.433	1.00 55.44	6
MOTA	12386	C	ALA E 100	96.073	84.519	21.048	1.00115.99	6
ATOM	12387	0	ALA E 100	95.838	83.916	22.095	1.00116.63	8
ATOM	12388	N	ALA E 101	96.197	85.840	20.985	1.00208.87	7
ATOM	12389	CA	ALA E 101	96.120	86.677	22.178	1.00208.87	6
ATOM	12390	СВ	ALA E 101	97.103	87.837	22.044	1.00152.73	6
ATOM	12391	C	ALA E 101	94.726	87.215	22.520	1.00208.87	6
ATOM	12392	Ö	ALA E 101	94.597	88.366	22.943	1.00208.87	8
MOTA	12393	N	ALA E 101	93.690	86.394	22.352	1.00125.03	7
ATOM	12394	CA	ALA E 102	92.326	86.833	22.657	1.00123.03	6
MOTA	12395	CB	ALA E 102	91.348	86.225	21.670	1.00 79.18	6
ATOM	12396	CP	ALA E 102 ALA E 102	91.963	86.424	24.076	1.00123.79	6
ATOM	12397	0	ALA E 102 ALA E 102	91.284	87.154	24.803	1.00123.79	8
ATOM	12398	N	ALA E 102 ALA E 103	92.427	85.242	24.459	1.00123.34	7
	12399		ALA E 103	92.427	84.717	25.787	1.00154.47	6
MOTA		CA						
ATOM	12400	СВ	ALA E 103	92.455	83.211	25.802	1.00111.96	6
ATOM	12401	C	ALA E 103	93.085	85.435	26.788	1.00153.34	6
ATOM	12402	0	ALA E 103	93.701	84.783	27.634	1.00153.16	8
ATOM	12403	N	ALA E 104	93.159	86.768	26.679	1.00 56.57	7
ATOM	12404	CA	ALA E 104	93.991	87.622	27.547	1.00 55.34	6
ATOM	12405	СВ	ALA E 104	94.660	86.778	28.641	1.00 22.37	6
MOTA	12406	C	ALA E 104	95.065	88.363	26.740	1.00 55.07	6
MOTA	12407	0	ALA E 104	96.090	87.788	26.422	1.00 55.23	8
MOTA	12408	N	ALA E 105	94.841	89.630	26.400	1.00115.74	7
MOTA	12409	CA	ALA E 105	95.837	90.379	25.624	1.00114.78	6
MOTA	12410	CB	ALA E 105	95.210	90.924	24.313	1.00 29.18	6
ATOM	12411	С	ALA E 105	96.480	91.522	26.416	1.00113.87	6
MOTA	12412	0	ALA E 105	97.668	91.810	26.256	1.00113.50	8
MOTA	12413	N	ALA E 106	95.695	92.170	27.270	1.00136.29	7
ATOM	12414	CA	ALA E 106	96.192	93.281	28.078	1.00135.70	6
MOTA	12415	CB	ALA E 106	95.059	93.916	28.866	1.00139.76	6
ATOM	12416	С	ALA E 106	97.267	92.804	29.028	1.00134.84	6
MOTA	12417	0	ALA E 106	98.326	93.412	29.113	1.00135.36	8
MOTA	12418	N	ALA E 107	96.989	91.727	29.754	1.00121.92	7
ATOM	12419	CA	ALA E 107	97.972	91.191	30.681	1.00121.18	6
MOTA	12420	СВ	ALA E 107	97.578	89.775	31.122	1.00103.17	6
MOTA	12421	Č	ALA E 107	99.296	91.180	29.921	1.00120.64	6
ATOM	12422	Ö	ALA E 107	100.343	91.551	30.457	1.00120.71	8
ATOM	12423	N	ALA E 108	99.235	90.781	28.654	1.00 66.90	7
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ATOM	12424	CA	ALA E 108	100.422	90.746	27.811	1.00 66.00	6
MOTA	12425	CB	ALA E 108	100.098	90.085	26.459	1.00 29.40	6
ATOM	12426	C	ALA E 108	100.864	92.192	27.617	1.00 65.63	6
ATOM ATOM	12427 12428	O N	ALA E 108 ALA E 109	102.018 99.923	92.534 93.037	27.857 27.208	1.00 65.91 1.00 94.14	8 7
ATOM	12429	CA	ALA E 109	100.189	94.455	26.982	1.00 94.14	6
MOTA	12430	CB	ALA E 109	98.916	95.142	26.493	1.00157.23	6
ATOM	12431	C	ALA E 109	100.733	95.176	28.227	1.00 93.66	6
MOTA	12432	0	ALA E 109	101.295	96.271	28.126	1.00 93.28	8
MOTA	12433	N	ALA E 110	100.557	94.563	29.396	1.00 88.93	7
MOTA	12434	CA	ALA E 110	101.036	95.142	30.647	1.00 87.68	6
MOTA	12435	СВ	ALA E 110	100.083	94.792	31.804	1.00 13.87	6
MOTA	12436	C	ALA E 110	102.438	94.617	30.935	1.00 87.36	6
ATOM ATOM	12437 12438	O N	ALA E 110 ALA E 111	103.388 102.565	95.395 93.298	31.003 31.082	1.00 87.91 1.00 71.71	8 7
ATOM	12439	CA	ALA E 111 ALA E 111	102.365	92.667	31.363	1.00 71.71	6
MOTA	12440	CB	ALA E 111	103.666	91.140	31.585	1.00 72.01	6
ATOM	12441	C	ALA E 111	104.903	92.917	30.264	1.00 72.29	6
ATOM	12442	0	ALA E 111	105.839	92.128	30.108	1.00 73.03	8
ATOM	12443	N	ALA E 112	104.756	94.012	29.515	1.00 96.42	7
ATOM	12444	CA	ALA E 112	105.695	94.347	28.440	1.00 95.42	6
ATOM	12445	CB	ALA E 112	105.906	93.120	27.534	1.00 41.44	6
ATOM	12446	C	ALA E 112	105.256	95.549	27.593	1.00 94.77	6
ATOM ATOM	12447 12448	O N	ALA E 112 ALA E 113	105.085 105.098	95.423 96.701	26.381 28.247	1.00 94.39 1.00 98.10	8 7
ATOM	12449	CA	ALA E 113	103.038	97.981	27.644	1.00 98.10	6
ATOM	12450	CB	ALA E 113	105.786	99.051	27.876	1.00 13.87	6
ATOM	12451	Ċ	ALA E 113	104.238	98.006	26.169	1.00 99.05	6
ATOM	12452	0	ALA E 113	104.471	98.995	25.469	1.00 99.32	8
ATOM	12453	N	ALA E 114	103.576	96.944	25.711	1.00146.06	7
ATOM	12454	CA	ALA E 114	103.117	96.853	24.323	1.00146.52	6
ATOM	12455	CB	ALA E 114	103.658	95.554	23.671	1.00 49.17	6
ATOM	12456 12457	С О	ALA E 114 ALA E 114	101.587 100.913	96.904 95.875	24.229 24.305	1.00146.76 1.00147.41	6 8
MOTA MOTA	12457	N	ALA E 114 ALA E 115	101.048	98.108	24.303	1.00147.41	7
ATOM	12459	CA	ALA E 115	99.601	98.305	23.959	1.00 56.95	6
ATOM	12460	СВ	ALA E 115	99.114	99.139	25.143	1.00151.32	6
ATOM	12461	C	ALA E 115	99.193	98.976	22.646	1.00 56.60	6
MOTA	12462	0	ALA E 115	99.868	99.892	22.170	1.00 55.48	8
MOTA	12463	N	ALA E 116	98.078	98.532	22.071	1.00112.70	7
ATOM	12464	CA	ALA E 116	97.609	99.083	20.803	1.00113.68	6
ATOM ATOM	12465 12466	CB C	ALA E 116 ALA E 116	97.489 98.645	100.606 98.690	20.886 19.755	1.00 45.97 1.00114.23	6 6
MOTA	12467	0	ALA E 116	98.450	98.875	18.551	1.00114.25	8
ATOM	12468	N	ALA E 117	99.753	98.141	20.244	1.00111.10	7
MOTA	12469	CA	ALA E 117	100.852	97.691	19.408	1.00118.20	6
MOTA	12470	CB	ALA E 117	102.183	98.081	20.044	1.00100.22	6
MOTA	12471	C	ALA E 117	100.751	96.177	19.274	1.00117.69	6
MOTA	12472	0	ALA E 117	100.983	95.627	18.199	1.00118.09	8
ATOM	12473	N	ALA E 118	100.401	95.507	20.370	1.00121.35	7
ATOM ATOM	12474 12475	CA CB	ALA E 118 ALA E 118	100.255 99.940	94.054 93.534	20.360 21.765	1.00120.31 1.00 41.23	6 6
ATOM	12475	СВ	ALA E 118	99.116	93.735	19.403	1.00 41.23	6
ATOM	12477	Õ	ALA E 118	98.784	92.575	19.163	1.00119.51	8
MOTA	12478	N	ALA E 119	98.518	94.791	18.866	1.00131.56	7
MOTA	12479	CA	ALA E 119	97.438	94.658	17.910	1.00130.77	6

ATOM 12480 CB ALA E 119 96.497 95.832 18.028 1.00 93.87 6 MOTA 12481 C ALA E 119 98.082 94.631 16.531 1.00129.80 MOTA 12482 0 ALA E 119 97.480 94.193 15.553 1.00130.43 12483 MOTA Ν ALA E 120 99.319 95.108 16.467 1.00 75.06 7 ATOM ALA E 120 12484 CA 100.072 95.135 15.222 1.00 72.98 6 ATOM 12485 96.281 CB ALA E 120 101.078 15.257 1.00 83.58 6 100.798 ATOM 12486 C ALA E 120 93.802 15.023 1.00 71.14 6 MOTA 12487 0 ALA E 120 100.532 93.069 14.069 1.00 70.20 8 MOTA 12488 ALA E 121 Ν 101.704 93.501 15.948 1.00 49.75 7 MOTA ALA E 121 12489 CA 102.511 92.280 15.924 1.00 49.46 6 MOTA 12490 CB ALA E 121 103.551 17.048 92.344 1.00 59.18 6 MOTA 12491 C ALA E 121 101.747 90.948 16.004 1.00 48.63 6 MOTA 12492 0 ALA E 121 102.121 89.973 15.343 1.00 48.09 8 ATOM 12493 Ν ALA E 122 100.693 90.900 16.816 1.00 71.02 7 ATOM 12494 CA ALA E 122 99.915 89.676 16.974 1.00 70.10 6 ATOM 12495 ALA E 122 98.935 CB 89.802 18.163 1.00 13.87 6 ATOM 12496 C ALA E 122 99.169 89.333 1.00 69.94 15.690 6 MOTA 12497 0 ALA E 122 98.980 88.160 15.370 1.00 70.05 8 12498 MOTA Ν ALA E 123 98.760 90.349 14.940 7 1.00178.16 MOTA 12499 CA 98.043 ALA E 123 90.097 13.696 1.00178.21 6 12500 ATOM 97.028 CB ALA E 123 91.221 13.429 1.00 13.87 6 MOTA 12501 C 98.992 ALA E 123 89.926 12.502 1.00178.38 6 ATOM 12502 0 ALA E 123 98.566 90.007 11.346 1.00179.27 8 ATOM 12503 ALA E 124 Ν 100.273 89.683 12.785 1.00 30.70 7 MOTA 12504 CA ALA E 124 101.266 89.480 11.734 1.00 29.80 6 MOTA 12505 ALA E 124 CB 101.058 88.091 11.095 1.00 13.87 6 MOTA 12506 C ALA E 124 101.217 90.579 10.660 1.00 30.66 6 MOTA 12507 0 ALA E 124 100.847 90.329 9.513 1.00 29.87 8 ATOM 12508 Ν ALA E 125 101.602 91.797 11.039 1.00136.32 7 MOTA 12509 101.581 10.098 CA ALA E 125 92.914 1.00137.92 6 ATOM 12510 CB ALA E 125 100.135 93.207 9.683 1.00 64.13 6 12511 MOTA C ALA E 125 102.248 94.210 10.581 1.00138.86 6 12512 101.747 ATOM 0 ALA E 125 95.302 10.300 1.00139.25 8 103.366 ATOM 12513 Ν ALA E 126 94.106 11.296 1.00 62.51 7 95.301 MOTA 12514 CA ALA E 126 104.057 11.767 1.00 62.97 б ALA E 126 ATOM 12515 103.524 CB 95.716 13.123 1.00 94.98 6 ATOM 95.075 12516 C ALA E 126 105.552 11.851 1.00 64.15 6 ATOM 12517 0 ALA E 126 106.285 95.373 10.905 1.00 64.19 8 MOTA 12518 N ALA E 127 105.992 94.550 12.993 7 1.00 93.46 MOTA 12519 CA ALA E 127 107.404 94.270 13.257 1.00 94.94 6 MOTA 12520 CB ALA E 127 108.266 95.415 12.763 1.00 17.72 6 MOTA 12521 C ALA E 127 107.605 94.076 14.758 1.00 96.30 6 12522 MOTA ALA E 127 107.633 0 95.046 15.523 1.00 96.29 8 MOTA 12523 107.751 ALA E 128 Ν 92.821 15.172 1.00 83.88 7 12524 107.920 92.495 ATOM CA ALA E 128 16.584 1.00 85.18 6 12525 107.585 1.00113.19 ATOM CB ALA E 128 91.020 16.816 6 ATOM 12526 ALA E 128 109.308 92.813 C 17.146 1.00 86.19 6 MOTA 12527 0 ALA E 128 109.421 93.502 18.163 1.00 87.00 8 **ATOM** 12528 ALA E 129 Ν 110.348 92.316 16.474 1.00 69.89 7 MOTA 12529 ALA E 129 CA 111.746 92.495 16.883 1.00 71.80 6 MOTA 12530 CB ALA E 129 112.022 93.936 17.341 1.00 13.87 6 ATOM 12531 ALA E 129 C 112.066 91.520 17.998 1.00 73.44 6 MOTA 12532 ALA E 129 111.235 1.00 73.27 0 90.676 18.335 8 ALA E 130 ATOM 12533 Ν 113.266 91.642 18.558 1.00109.86 7 ATOM 12534 CA ALA E 130 113.737 90.786 19.645 1.00112.83 6 ATOM 12535 ALA E 130 112.946 CB 89.482 19.706 1.00 70.66

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MOTA 12536 C ALA E 130 115.199 90.476 19.397 1.00115.36 MOTA 12537 0 ALA E 130 115.932 90.093 20.312 1.00116.61 12538 ALA E 131 MOTA Ν 115.615 90.640 18.145 1.00208.87 7 ATOM 12539 CA ALA E 131 116.989 90.379 17.751 1.00208.87 6 MOTA 12540 CB ALA E 131 117.011 89.490 16.510 1.00139.43 6 ATOM 12541 C ALA E 131 117.724 91.692 17.485 1.00208.87 6 ATOM 12542 0 ALA E 131 117.488 92.358 16.473 1.00208.87 8 12543 ATOM ALA E 132 118.608 Ν 92.060 18.407 1.00160.35 7 ATOM 12544 CA ALA E 132 119.386 93.289 18.292 1.00161.39 6 12545 120.470 MOTA CB ALA E 132 93.311 19.364 1.00126.25 6 MOTA 12546 C ALA E 132 120.012 93.407 16.905 1.00162.45 6 ATOM 12547 0 ALA E 132 120.064 92.430 16.159 1.00162.81 8 ATOM 12548 ALA E 133 Ν 120.489 94.600 16.557 1.00148.54 7 121.100 12549 ATOM CA ALA E 133 94.798 15.244 1.00149.35 6 ATOM 12550 CB ALA E 133 120.035 94.653 14.159 1.00137.78 6 ATOM 12551 С ALA E 133 121.850 96.122 15.071 1.00149.95 6 12552 MOTA 0 ALA E 133 122.803 96.409 15.796 1.00150.94 8 MOTA 12553 ALA E 134 121.411 96.919 14.099 1.00 75.98 N 7 MOTA 12554 ALA E 134 122.029 98.205 13.794 CA 1.00 76.04 6 MOTA 12555 CB ALA E 134 122.453 98.229 12.326 1.00130.28 6 MOTA 12556 C ALA E 134 121.152 99.422 14.099 1.00 76.45 6 MOTA 12557 0 ALA E 134 120.927 99.759 15.265 1.00 75.74 8 MOTA 12558 N ALA E 135 120.663 100.079 13.048 1.00136.30 7 MOTA 12559 CA ALA E 135 119.827 101.266 13.211 1.00137.55 6 ATOM 12560 CB ALA E 135 120.504 102.246 14.141 1.00 90.41 6 MOTA 12561 C ALA E 135 119.547 101.947 11.877 1.00138.32 6 ATOM 12562 ALA E 135 120.384 101.929 0 10.973 1.00138.96 8 MOTA 12563 ALA E 136 118.370 102.561 11.773 N 7 1.00190.44 ATOM 12564 CA ALA E 136 117.953 103.260 10.561 1.00191.59 6 12565 СВ ALA E 136 MOTA 116.494 102.945 10.255 1.00140.21 6 MOTA 12566 С ALA E 136 118.140 104.768 10.690 1.00192.38 6 117.752 118.728 MOTA 12567 0 ALA E 136 105.528 9.799 1.00193.07 8 MOTA 12568 Ν ALA E 137 105.189 11.808 1.00207.72 7 MOTA 12569 CA ALA E 137 118.989 106.602 12.081 1.00207.46 6 MOTA 12570 CB ALA E 137 117.691 107.408 12.028 1.00117.55 6 MOTA 12571 С ALA E 137 119.656 106.785 13.444 1.00207.69 6 120.737 107.364 MOTA 12572 0 ALA E 137 13.542 1.00208.14 8 12573 119.006 106.291 ATOM Ν ALA E 138 14.492 1.00150.77 7 ATOM 12574 CA ALA E 138 119.539 106.406 15.842 1.00150.79 6 ATOM 12575 CB ALA E 138 118.421 106.738 16.809 1.00132.19 6 ATOM12576 C ALA E 138 120.241 105.125 16.270 1.00150.96 6 12577 ATOM 0 ALA E 138 121.458 105.009 16.150 1.00151.30 8 16.776 17.212 12578 MOTA N ALA E 139 119.473 104.167 7 1.00113.98 12579 ALA E 139 120.033 102.895 MOTA CA 1.00113.98 6 120.454 102.982 18.681 MOTA 12580 CB ALA E 139 1.00 93.02 6 ALA E 139 119.007 101.778 MOTA 12581 C 17.012 1.00114.55 6 MOTA 12582 ALA E 139 118.321 101.733 0 15.987 1.00114.68 8 ATOM 12583 Ν ALA E 140 118.912 100.877 17.990 1.00208.87 7 MOTA 12584 CA ALA E 140 117.963 99.763 17.944 1.00208.87 ALA E 140 ATOM 12585 CB 118.526 98.625 17.107 1.00 79.54 6 ATOM 12586 C ALA E 140 117.646 99.268 19.355 1.00208.87 6 ATOM 12587 ALA E 140 0 118.520 99.234 20.221 1.00208.87 8 MOTA 12588 ALA E 141 116.395 98.878 19.580 N 1.00 83.09 7 ALA E 141 ATOM 12589 115.965 CA 98.391 20.888 1.00 83.09 6 12590 MOTA CB ALA E 141 115.448 99.555 21.730 1.00160.18 6 ATOM 12591 ALA E 141 114.884 C 97.310 1.00 83.22 20.768 6

MOTA	12592	0	ALA E 141	114.196	97.215	19.751	1.00 82.93	8
MOTA	12593	\mathbf{N}	ALA E 142	114.731	96.503	21.814	1.00194.90	7
MOTA	12594	CA	ALA E 142	113.736		21.814	1.00194.98	6
ATOM	12595	СВ	ALA E 142	113.997		22.968	1.00131.90	6
ATOM	12596	C	ALA E 142	112.318	95.983	21.900	1.00194.65	6
ATOM	12597	0	ALA E 142	111.654				0
ATOM	12598					22.931	1.00195.16	8
		N	ALA E 143	111.863	96.590	20.806	1.00136.97	7
ATOM	12599	CA	ALA E 143	110.523	97.170	20.724	1.00136.69	6
ATOM	12600	СВ	ALA E 143	110.267	98.061	21.932	1.00183.63	6
ATOM	12601	С	ALA E 143	110.322	97.972	19.437	1.00136.26	6
MOTA	12602	0	ALA E 143	109.233	97.972	18.866	1.00136.76	8
MOTA	12603	N	ALA E 144	111.377	98.661	19.003	1.00208.87	7
MOTA	12604	CA	ALA E 144	111.346	99.474	17.787	1.00208.87	6
MOTA	12605	CB	ALA E 144	112.786	99.817	17.342	1.00 78.71	6
MOTA	12606	Ċ	ALA E 144	110.604	98.719	16.681	1.00208.87	6
ATOM	12607	Ö	ALA E 144	111.203	97.942	15.937	1.00208.87	8
ATOM	12608	N	ALA E 145	109.295	98.955	16.589		
	12609						1.00138.23	7
ATOM		CA	ALA E 145	108.446	98.296	15.598	1.00136.15	6
ATOM	12610	CB	ALA E 145	107.014	98.202	16.127	1.00141.89	6
ATOM	12611	C	ALA E 145	108.465	98.989	14.229	1.00134.71	6
MOTA	12612	0	ALA E 145	107.579	99.783	13.903	1.00134.55	8
MOTA	12613	N	ALA E 146	109.481	98.672	13.432	1.00160.11	7
MOTA	12614	CA	ALA E 146	109.628	99.241	12.099	1.00157.72	6
ATOM	12615	CB	ALA E 146	110.936	98.766	11.484	1.00 56.13	6
MOTA	12616	С	ALA E 146	108.446	98.808	11.236	1.00156.32	6
MOTA	12617	0	ALA E 146	107.686	97.928	11.628	1.00156.69	8
ATOM	12618	N	ALA E 147	108.289	99.422	10.066	1.00176.44	7
MOTA	12619	CA	ALA E 147	107.185	99.075	9.173	1.00174.35	6
ATOM	12620	CB	ALA E 147	106.884	100.234	8.225	1.00174.33	6
ATOM	12621	C	ALA E 147	107.479	97.810	8.370	1.00 13.87	6
ATOM	12622	Ô	ALA E 147	108.565	97.237	8.473	1.00172.71	
ATOM	12623	N	ALA E 147					8
	12624			106.501	97.383	7.573	1.00146.02	7
ATOM		CA	ALA E 148	106.631	96.188	6.743	1.00143.18	6
ATOM	12625	СВ	ALA E 148	105.415	96.067	5.803	1.00 63.85	6
ATOM	12626	C	ALA E 148	107.923	96.224	5.929	1.00141.42	6
ATOM	12627	0	ALA E 148	108.558	95.193	5.703	1.00141.69	8
ATOM	12628	N	ALA E 149	108.306	97.424	5.505	1.00 90.34	7
ATOM	12629	CA	ALA E 149	109.508	97.626	4.706	1.00 87.62	6
MOTA	12630	CB	ALA E 149	109.302	98.810	3.763	1.00 63.96	6
MOTA	12631	С	ALA E 149	110.759	97.844	5.554	1.00 85.77	6
MOTA	12632	0	ALA E 149	111.758	97.152	5.367	1.00 85.86	8
MOTA	12633	N	ALA E 150	110.692	98.801	6.483	1.00 51.33	7
MOTA	12634	CA	ALA E 150	111.815	99.139	7.363	1.00 49.33	6
MOTA	12635	СВ	ALA E 150	111.346	100.029	8.528	1.00 38.77	6
ATOM	12636	C	ALA E 150	112.512	97.893	7.891	1.00 48.52	6
ATOM	12637	Õ	ALA E 150	113.613	97.965	8.443	1.00 48.14	8
ATOM	12638	N	ALA E 151	111.860	96.749	7.733	1.00 73.27	7
ATOM	12639	CA	ALA E 151	112.454				
ATOM	12640	CB	ALA E 151 ALA E 151	111.391	95.495	8.140	1.00 72.54	6
ATOM	12641				94.444	8.316	1.00 39.74	6
		C	ALA E 151	113.359	95.135	6.972	1.00 72.88	6
MOTA	12642	O N	ALA E 151	114.579	95.094	7.110	1.00 73.09	8
ATOM	12643	N	ALA E 152	112.747	94.897	5.814	1.00 99.11	7
ATOM	12644	CA	ALA E 152	113.487	94.550	4.606	1.00100.05	6
ATOM	12645	CB	ALA E 152	112.624	94.792	3.379	1.00130.30	6
ATOM	12646	C	ALA E 152	114.745	95.397	4.532	1.00100.26	6
MOTA	12647	0	ALA E 152	115.823	94.909	4.196	1.00100.22	8

MOTA MOTA	12648 12649	N CA	ALA E ALA E	153 153	114.591 115.710	96.677 97.599	4.848 4.838	1.00 88.91 1.00 88.85	7
ATOM	12650	CB		153	115.710	98.931	5.469	1.00 53.58	6 6
ATOM	12651	СВ		153	116.814	96.950	5.646	1.00 89.26	6
ATOM	12652	Ö		153	117.895	96.680	5.130	1.00 89.20	8
ATOM	12653	N		154	116.520	96.679	6.913	1.00 65.53	7
ATOM	12654	CA		154	117.479	96.058	7.816	1.00 64.96	6
ATOM	12655	СВ		154	116.908	96.042	9.224	1.00 20.30	6
ATOM	12656	С	ALA E	154	117.873	94.640	7.389	1.00 64.65	6
MOTA	12657	0	ALA E	154	118.616	93.956	8.097	1.00 64.49	8
ATOM	12658	N		155	117.381	94.211	6.228	1.00100.32	7
MOTA	12659	CA		155	117.680	92.880	5.701	1.00101.00	6
ATOM	12660	CB		155	116.391	92.209	5.219	1.00 79.53	6
ATOM	12661	С		155	118.713	92.917	4.564	1.00101.26	6
MOTA	12662	0		155	119.751	92.228	4.690	1.00101.36	8
ATOM	12663	OXT		155	118.478	93.623	3.557	1.00 79.48	8
ATOM	12664	СВ		452	120.550	88.822	12.955	1.00 38.60	6
MOTA	12665	C		452	119.171	90.755	12.218	1.00 67.11	6
ATOM	12666 12667	O N		452 452	119.148 121.671	91.619 90.756	13.095 11.907	1.00 67.68 1.00 66.01	8 7
ATOM ATOM	12668	CA		452 452	121.671 120.425	89.931	11.907	1.00 66.01	6
ATOM	12669	N		452 453	118.113	90.454	11.482	1.00 66.79	7
ATOM	12670	CA		453	116.858	91.167	11.631	1.00116.97	6
MOTA	12671	CB		453	115.972	90.902	10.409	1.00200.00	6
ATOM	12672	C		453	116.097	90.834	12.915	1.00116.82	6
ATOM	12673	Ö		453	116.690	90.551	13.957	1.00116.02	8
MOTA	12674	N		454	114.771	90.874	12.808	1.00 83.92	7
MOTA	12675	CA		454	113.864	90.613	13.914	1.00 83.90	6
MOTA	12676	CB	ALA F	454	113.159	91.891	14.286	1.00 74.11	6
MOTA	12677	С		454	112.836	89.557	13.534	1.00 83.87	6
MOTA	12678	0		454	113.056	88.756	12.626	1.00 83.95	8
MOTA	12679	N		455	111.700	89.579	14.225	1.00124.76	7
MOTA	12680	CA		455	110.627	88.625	13.974	1.00125.32	6
ATOM	12681	СВ		455	110.726	87.472	14.964	1.00 36.96	6
MOTA	12682	C		455	109.250	89.277	14.075	1.00125.72	6 8
MOTA MOTA	12683 12684	O N		455 456	109.130 108.217	90.458 88.492	14.403 13.785	1.00126.19 1.00125.26	8 7
ATOM	12685	CA		456	106.217	88.960	13.765	1.00125.20	6
ATOM	12686	CB		456	106.418	89.616	12.540	1.00123.03	6
ATOM	12687	CG		456	105.019	90.211	12.575	1.00121.00	6
ATOM	12688	SD		456	104.271	90.298	10.947	1.00122.21	16
MOTA	12689	CE		456	104.846	91.866	10.393	1.00123.98	6
ATOM	12690	С		456	105.905	87.785	14.144	1.00124.57	6
MOTA	12691	0	MET F	456	106.307	86.620	14.043	1.00124.83	8
ATOM	12692	N		457	104.662	88.098	14.500	1.00146.13	7
MOTA	12693	CA		457	103.687	87.065	14.795	1.00144.47	6
ATOM	12694	C		457	103.554	86.800	16.280	1.00143.55	6
ATOM	12695	0		457	104.230	87.428	17.095	1.00143.63	8
ATOM	12696	N		458	102.678	85.863	16.630	1.00 89.49	7
ATOM	12697	CA		458	102.445	85.502	18.025	1.00 87.39	6
ATOM ATOM	12698 12699	CB C		458 458	101.226 103.663	84.599 84.804	18.130 18.604	1.00117.14 1.00 85.65	6 6
ATOM	12700	0		458	103.063	84.944	19.783	1.00 85.89	8
ATOM	12700	N		459	103.366	84.049	17.764	1.00 58.03	7
ATOM	12702	CA	GLU F		105.549	83.341	18.193	1.00 56.94	6
ATOM	12703	CB	GLU F		106.075	82.447	17.064	1.00 92.28	6
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	12704 12705 12706 12707 12708 12709 12710 12711 12712 12713 12714 12715	CG CD OE1 OE2 C O N CA CB C		7 459 7 459 7 459 7 459 7 460 7 460 7 460	107.26 107.66 108.02 107.60 106.61 107.42 106.59 107.55 107.42 107.26 108.14	80.595 8 81.041 3 79.372 0 84.359 1 84.111 9 85.505 4 86.573 2 87.680 2 87.122 7 87.194	16.383 15.276 16.640 18.587 19.480 17.913 18.199 17.168 19.589 20.449	1.00 93.55 1.00 93.66 1.00 94.23 1.00 55.62 1.00 57.59 1.00 56.41 1.00 66.61 1.00 54.89	668868766687
ATOM ATOM	12716 12717	CA CB	ILE F	461	105.56 104.08	3 88.371	21.057	1.00 62.08	6 6
ATOM ATOM	12718 12719	CG2 CG1			103.72 103.74				6
ATOM	12720	CD1			104.63				6 6
ATOM	12721	C	ILE F		105.79			1.00 87.34	6
MOTA	12722	0	ILE F	461	106.30			1.00 88.20	8
ATOM	12723	N	GLN F		105.41			1.00 59.54	7
ATOM ATOM	12724 12725	CA CB	GLN F		105.62			1.00 59.73	6
ATOM	12726	CG	GLN F		105.35 105.52			1.00 89.81 1.00 90.71	6 6
ATOM	12727	CD	GLN F		105.32			1.00 90.71	6
MOTA	12728	OE1	GLN F		106.03			1.00 92.84	8
MOTA	12729	NE2	GLN F		104.37			1.00 92.15	7
ATOM ATOM	12730 12731	C	GLN F		107.08			1.00 59.95	6
ATOM	12731	O N	GLN F		107.44 107.92			1.00 59.75 1.00102.73	8 7
ATOM	12733	CA	GLU F		109.36			1.00102.73	6
MOTA	12734	CB	GLU F		110.00			1.00141.27	6
ATOM	12735	CG	GLU F		111.50			1.00141.64	6
ATOM	12736	CD OH1	GLU F		112.05			1.00141.81	6
ATOM ATOM	12737 12738	OE1 OE2	GLU F		111.570 112.98		18.924	1.00141.52	8
ATOM	12739	C	GLU F		109.63		18.913 23.115	1.00142.23 1.00104.05	8 6
MOTA	12740	Ö	GLU F		110.19		24.176	1.00104.03	8
MOTA	12741	N	LEU F		109.20	5 87.011	22.828	1.00 65.20	7
ATOM	12742	CA	LEU F		109.39		23.763	1.00 65.47	6
ATOM ATOM	12743 12744	CB CG	LEU F		108.599 109.111		23.302 22.045	1.00 23.98	6
ATOM	12745	CD1	LEU F		109.11		21.594	1.00 22.38 1.00 21.31	6 6
ATOM	12746	CD2	LEU F		110.481		22.357	1.00 22.00	6
ATOM	12747	С	LEU F		108.96		25.173	1.00 66.98	6
ATOM	12748	0	LEU F		109.739	9 87.815	26.124	1.00 66.60	8
ATOM	12749	N	LEU F		107.739		25.304	1.00 90.78	7
ATOM ATOM	12750 12751	CA CB	LEU F	465 465	107.235 105.764		26.607 26.519	1.00 93.27	6
ATOM	12752	CG	LEU F	465	104.745		26.623	1.00 57.35 1.00 56.24	6 6
MOTA	12753	CD1	LEU F	465	104.604		25.298	1.00 55.61	6
MOTA	12754	CD2	LEU F	465	103.401	1 86.955	27.048	1.00 55.69	6
ATOM	12755	C	LEU F	465	108.085		27.191	1.00 95.50	6
ATOM ATOM	12756 12757	N O	LEU F ALA F	465 466	108.746 108.080		28.212	1.00 96.05	8
MOTA	12758	CA	ALA F		108.877		26.547 27.033	1.00162.20 1.00165.26	7 6
ATOM	12759	CB	ALA F		108.807		26.057	1.00103.20	6
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MOTA	12760	С	ALA F	466	110.313	83.873	27.174	1.00167.47	6
MOTA	12761	Ō	ALA F		110.677	84.918	26.638	1.00167.66	8
MOTA	12762	N	ALA F	467	111.110	83.106	27.912	1.00208.87	7
MOTA	12763	CA	ALA F	467	112.522	83.402	28.143	1.00208.87	6
ATOM	12764	CB	ALA F	467	113.347	82.899	26.965	1.00176.73	6
ATOM	12765	С	ALA F	467	112.864	84.867	28.428	1.00208.87	6
ATOM	12766	0	ALA F	467	113.292	85.198	29.533	1.00208.87	8
ATOM	12767	N	ALA F	468	112.687	85.728	27.428	1.00164.03	7
MOTA	12768	CA	ALA F	468	112.986	87.156	27.541	1.00165.22	6
MOTA	12769	CB	ALA F	468	112.349	87.912	26.384	1.00105.32	6
MOTA	12770	C	ALA F	468	112.557	87.778	28.864	1.00166.15	6
MOTA	12771	0	ALA F	468	113.163	87.515	29.904	1.00167.06	8
MOTA	12772	N	ASP F	469	111.518	88.609	28.827	1.00109.62	7
ATOM	12773	CA	ASP F	469	111.046	89.258	30.047	1.00109.91	6
ATOM	12774	CB	ASP F	469	109.794	90.103	29.773	1.00192.11	6
ATOM	12775	CG	ASP F	469	108.508	89.325	29.954	1.00193.81	6
ATOM	12776		ASP F	469	108.331	88.294	29.274	1.00195.21	8
MOTA	12777	OD2	ASP F	469	107.671	89.751	30.779	1.00195.31	8
MOTA	12778	C	ASP F	469	110.747	88.180	31.078	1.00108.88	6
MOTA MOTA	12779 12780	0	ASP F	469	110.533	88.464	32.256	1.00108.46	8
ATOM	12780	N CA	ALA F	470 470	110.751 110.504	86.936 85.794	30.611	1.00123.41	7
ATOM	12781	CB	ALA F	470	110.304	84.519	31.465 30.715	1.00123.29 1.00 39.27	6
ATOM	12783	CD	ALA F	470	111.398	85.904	32.692	1.00 39.27	6 6
ATOM	12784	Ö	ALA F	470	111.131	85.282	33.720	1.00123.32	8
ATOM	12785	N	GLU F	471	112.470	86.684	32.581	1.00123.75	7
ATOM	12786	CA	GLU F	471	113.344	86.887	33.724	1.00100.30	6
ATOM	12787	CB	GLU F	471	114.746	87.314	33.277	1.00121.34	6
ATOM	12788	CG	GLU F	471	114.801	88.468	32.298	1.00121.94	6
ATOM	12789	CD	GLU F	471	116.230	88.814	31.909	1.00123.23	6
ATOM	12790	OE1	GLU F	471	116.939	87.934	31.375	1.00124.22	8
MOTA	12791	OE2	GLU F	471	116.649	89.966	32.142	1.00124.59	8
ATOM	12792	C	GLU F	471	112.649	87.989	34.508	1.00101.49	6
MOTA	12793	0	GLU F	471	113.089	89.136	34.534	1.00102.02	8
ATOM	12794	N	ALA F	472	111.535	87.610	35.130	1.00134.27	7
ATOM ATOM	12795 12796	CA CB	ALA F	472 472	110.694	88.518	35.901	1.00134.15	6
ATOM	12797	C	ALA F	472 472	109.315 111.272	87.893 88.942	36.108	1.00153.46	6
ATOM	12798	0	ALA F	472	111.272	90.112	37.237 37.602	1.00133.41	6 8
ATOM	12799	N	LEU F	473	111.843	87.999	37.002	1.00153.00	7
ATOM	12800	CA	LEU F	473	112.428	88.331	39.269	1.00153.61	6
ATOM	12801	CB	LEU F	473	113.378	87.226	39.731	1.00199.24	6
MOTA	12802	CG	LEU F	473	112.750	85.898	40.151	1.00200.51	6
MOTA	12803	CD1		473	113.853	84.921	40.529	1.00200.81	6
MOTA	12804	CD2	LEU F	473	111.804	86.123	41.325	1.00200.52	6
MOTA	12805	С	LEU F		113.197	89.637	39.142	1.00153.51	6
MOTA	12806	0	LEU F	473	113.320	90.396	40.105	1.00154.38	8
MOTA	12807	N	GLU F	474	113.710	89.890	37.941	1.00107.94	7
ATOM	12808	CA	GLU F	474	114.464	91.104	37.672	1.00107.24	6
MOTA	12809	CB	GLU F	474	115.330	90.911	36.420	1.00140.51	6
ATOM	12810	CG	GLU F	474	116.474	89.913	36.651	1.00140.87	6
ATOM ATOM	12811 12812	CD OF1	GLU F	474	117.262	89.577	35.394	1.00141.43	6
ATOM	12812	OE1 OE2	GLU F	474 474	117.742	90.509	34.717	1.00142.23	8
ATOM	12814	C C		474 474	117.413 113.517	88.373 92.292	35.089 37.526	1.00141.78	8
ATOM	12815	0	GLU F		113.517	93.313	38.193	1.00107.50 1.00107.84	6 8
111 011	-4-U-L-J		0110 T	- /	110.092	JJ.JLJ	JU.133	1.00107.04	0

MOTA 12816 Ν ARG F 475 112.505 92.155 36.675 1.00107.45 MOTA 12817 CA ARG F 475 111.527 93.224 36.480 1.00107.51 6 MOTA 12818 CB ARG F 475 110.458 92.787 35.474 6 1.00141.99 MOTA 12819 CG ARG F 475 110.974 92.448 34.080 1.00141.55 6 MOTA 12820 CD ARG F 475 111.535 93.667 33.359 1.00141.54 6 MOTA 12821 NE ARG F 475 111.576 93.458 31.913 1.00141.93 7 111.971 MOTA 12822 CZARG F 475 94.371 31.031 1.00141.54 6 12823 ARG F 475 112.367 MOTA NH1 95.567 31.441 1.00141.34 7 MOTA 12824 NH2 ARG F 475 111.958 94.089 29.735 7 1.00141.23 ATOM 12825 C ARG F 475 110.861 93.542 37.822 1.00107.45 б ATOM 38.021 12826 0 ARG F 475 110.295 94.621 8 1.00107.57 ATOM 12827 Ν ALA F 476 110.935 92.583 38.738 7 1.00 99.87 ATOM 12828 CA ALA F 476 92.720 110.351 40.065 1.00 99.52 6 ATOM 12829 CB ALA F 476 110.477 91.395 40.823 1.00 23.91 6 MOTA 12830 C ALA F 476 111.012 93.848 40.858 1.00 99.38 6 MOTA 12831 0 ALA F 476 110.378 94.870 41.141 1.00 99.48 8 MOTA 12832 Ν LEU F 477 112.282 93.656 7 41.218 1.00 83.50 MOTA 12833 477 113.022 CA LEU F 94.657 41.980 1.00 83.52 6 MOTA 12834 CB LEU F 477 114.353 94.090 42.469 1.00 91.72 6 MOTA 12835 CG LEU F 477 115.096 94.997 43.458 1.00 92.35 6 MOTA 12836 CD1 LEU F 477 114.213 95.278 44.671 1.00 92.01 6 MOTA 12837 CD2 LEU F 477 116.408 94.338 43.888 1.00 92.88 6 LEU F 477 MOTA 12838 C 113.272 95.863 41.096 1.00 83.85 6 ATOM 12839 LEU F 477 0 113.595 96.950 41.581 1.00 83.05 8 MOTA 12840 ALA F 478 Ν 113.120 95.656 39.792 1.00145.48 7 ALA F 478 MOTA 12841 CA 113.297 96.720 38.816 1.00147.27 6 MOTA 12842 CB ALA F 478 113.356 96.139 37.412 1.00126.87 6 MOTA 12843 C ALA F 478 112.096 97.641 38.952 1.00148.37 6 98.821 112.232 MOTA 12844 0 ALA F 478 39.277 1.00148.44 8 MOTA 12845 ALA F 479 110.915 97.089 N 38.702 7 1.00136.33 MOTA 12846 ALA F 109.687 97.855 CA 479 38.820 1.00137.64 6 MOTA 12847 CB ALA F 479 108.482 96.929 38.660 1.00117.85 6 MOTA 12848 C ALA F 479 109.693 98.493 40.207 1.00138.59 6 MOTA 12849 0 ALA F 479 109.482 99.699 40.357 1.00139.42 8 MOTA 12850 Ν GLU F 480 109.958 97.668 7 41.216 1.00152.44 MOTA 12851 CA GLU F 480 110.010 98.119 42.600 1.00153.69 6 ATOM 12852 CB GLU F 480 110.554 96.996 43.492 1.00169.11 6 ATOM 12853 CG GLU F 480 110.873 97.411 44.922 1.00170.48 6 MOTA 12854 CD GLU F 480 109.646 97.826 45.706 1.00171.78 6 MOTA 12855 OE1 GLU F 480 108.756 96.977 45.909 1.00172.92 8 ATOM 12856 OE2 GLU F 480 109.572 99.001 46.123 1.00172.97 8 MOTA 12857 GLU F 480 110.889 99.359 С 42.731 1.00154.65 6 MOTA 12858 GLU F 480 0 110.735 100.141 43.669 1.00154.26 8 METMOTA 12859 Ν F 481 111.807 99.541 41.787 7 1.00171.53 MOTA 12860 CA MET \mathbf{F} 481 112.698 100.692 41.833 1.00172.59 6 MOTA 12861 CB MET F 481 114.032 100.377 41.145 1.00195.46 6 MOTA 115.126 101.411 12862 CG MET F 481 41.420 1.00197.17 6 MOTA 12863 SD MET F 481 115.700 102.328 39.968 1.00198.29 16 MOTA 12864 CE MET F 481 117.184 101.401 39.565 1.00198.23 6 MOTA 12865 C MET F 481 112.068 101.917 41.186 1.00172.32 6 MET F 481 ATOM 12866 0 112.696 102.974 41.115 1.00172.57 8 MOTA 12867 Ν LYS F 482 110.833 101.787 40.712 1.00125.11 7 MOTA 12868 LYS F 482 CA 110.182 102.933 40.101 1.00125.70 6 MOTA 12869 CB LYS F 482 109.566 102.577 38.750 1.00123.80 6 MOTA 12870 LYS CG F 482 109.282 103.809 37.895 1.00124.10 6 MOTA 12871 LYS F 482 CD109.064 103.435 36.443 1.00124.93

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ATOM	12872	CE	LYS F	482	109 085	104.660	35.549	1.00125.42	6
ATOM	12873	NZ	LYS F	482	109.040		34.109	1.00125.58	7
ATOM	12874	C	LYS F	482	109.124		41.018	1.00125.74	6
MOTA	12875	0	LYS F	482	108.029		41.176	1.00125.74	8
ATOM	12876	N	ALA F		108.029				7
ATOM	12877			483	109.493		41.625	1.00201.16	
		CA	ALA F				42.543	1.00200.45	6
MOTA	12878	CB	ALA F	483	108.714		43.930	1.00 57.23	6
MOTA	12879	C	ALA F	483		106.820	42.592	1.00200.60	6
ATOM	12880	0	ALA F	483	108.389		42.793	1.00201.18	8
ATOM	12881	N	PRO F	484	110.490		42.397	1.00128.83	7
ATOM	12882	CD	PRO F	484	111.546		41.960	1.00163.61	6
ATOM	12883	CA	PRO F	484		108.392	42.437	1.00128.74	6
ATOM	12884	CB	PRO F	484	112.467		42.000	1.00163.95	6
ATOM	12885	CG	PRO F	484	112.427		41.144	1.00163.51	6
ATOM	12886	C	PRO F	484	110.234		41.516	1.00128.71	6
ATOM	12887	0	PRO F	484	109.676		41.959	1.00128.57	8
ATOM	12888	N	SER F	485	110.193		40.236	1.00110.07	7
ATOM	12889	CA	SER F	485	109.470		39.258	1.00110.23	6
MOTA	12890	СВ	SER F	485	109.391		37.925	1.00126.40	6
MOTA	12891	OG	SER F	485	108.681		36.960	1.00126.46	8
MOTA	12892	C	SER F	485	108.063	110.087	39.767	1.00110.37	6
ATOM	12893	0	SER F	485	107.555		40.688	1.00110.69	8
MOTA	12894	N	ARG F	486	107.444		39.161	1.00108.29	7
MOTA	12895	CA	ARG F	486	106.108		39.542	1.00108.04	6
ATOM	12896	СВ	ARG F	486	105.807		38.878	1.00191.80	6
MOTA	12897	CG	ARG F	486	106.120		37.386	1.00191.38	6
ATOM	12898	CD	ARG F	486	105.239		36.703	1.00190.89	6
ATOM	12899	NE	ARG F	486	105.201		37.449	1.00190.38	7
ATOM	12900	CZ	ARG F	486	104.299		37.255	1.00190.43	6
ATOM	12901	NH1	ARG F	486	103.355		36.336	1.00190.60	7
ATOM	12902	NH2	ARG F	486	104.334		37.986	1.00190.17	7
ATOM	12903	C	ARG F	486	104.972	110.559	39.229	1.00108.40	6
ATOM	12904	0	ARG F	486	104.580	109.756	40.077	1.00108.25	8
ATOM	12905	N	ALA F	487	104.440	110.641	38.012	1.00208.87	7
ATOM	12906	CA	ALA F	487	103.332	109.789	37.582	1.00208.87	6
ATOM	12907	СВ	ALA F	487	102.559	110.480	36.452	1.00163.19	6
ATOM	12908	C	ALA F	487	103.764	108.388	37.143	1.00208.87	6
ATOM	12909	0	ALA F	487	103.075	107.403	37.421	1.00208.87	8
ATOM	12910	N	ARG F	488	104.898	108.301	36.454	1.00183.84	7
ATOM	12911	CA				107.019	35.979	1.00183.25	6
ATOM	12912	CB	ARG F			107.225	35.318	1.00195.91	6
ATOM	12913	CG	ARG F			108.271	34.214	1.00196.60	6
MOTA	12914	CD	ARG F			108.517	33.696	1.00197.72	6
MOTA	12915	NE	ARG F			109.500	32.617	1.00198.81	7
MOTA	12916	CZ				109.899	32.006	1.00199.34	6
MOTA	12917	NH1		488		109.400	32.367	1.00200.18	7
MOTA	12918 12919	NH2 C	ARG F	488		110.794	31.030	1.00199.44	7
MOTA						106.029	37.133	1.00182.60	6
MOTA MOTA	12920 12921	O M	ARG F	488 489		104.816 106.568	36.926	1.00182.59	8
ATOM	12921	N CA	ARG F		105.601	106.568 105.772	38.348	1.00194.53	7 6
ATOM	12923	CB		489			39.563	1.00193.24	6
ATOM	12923	CB	ARG F			106.668 105.899	40.799	1.00207.41	6
ATOM	12924	CD	ARG F			105.899	42.103 43.196	1.00208.86	6
ATOM	12925	NE	ARG F			106.782		1.00208.87	6 7
ATOM	12927	CZ	ARG F				44.386	1.00208.87	7 6
AIOM	12721	$C\Delta$	1 DAA	407	103.763	106.498	45.408	1.00208.87	6

ATOM	12928	NH1	ARG F	489	103.338	107.756	45.392	1.00208.87	7
MOTA	12929	NH2	ARG F	489	103.481		46.445	1.00208.87	7
ATOM	12930	C	ARG F	489	104.672		39.635	1.00200.87	6
MOTA	12931	Ö	ARG F	489	104.951		40.056	1.00191.14	8
MOTA	12932	N	ALA F	490	103.458		39.218	1.00104.12	7
ATOM	12933	CA	ALA F	490	102.345		39.260	1.00104.12	6
ATOM	12934	CB	ALA F	490	101.030		39.236	1.00167.05	6
ATOM	12935	C	ALA F	490	102.359		38.146	1.00107.03	6
MOTA	12936	Ō	ALA F	490	102.230		38.406	1.00 99.85	8
ATOM	12937	N	LYS F	491	102.506		36.908	1.00 76.30	7
ATOM	12938	CA	LYS F	491	102.517		35.757	1.00 75.17	6
ATOM	12939	СВ	LYS F	491	103.203		34.568	1.00127.19	6
ATOM	12940	CG	LYS F	491	103.182		33.281	1.00127.46	6
ATOM	12941	CD	LYS F	491	103.762	103.244	32.094	1.00127.22	6
ATOM	12942	CE	LYS F	491	103.773	102.395	30.823	1.00126.76	6
ATOM	12943	NZ	LYS F	491	104.299	103.134	29.642	1.00125.81	7
MOTA	12944	С	LYS F	491	103.207	101.284	36.077	1.00 74.50	6
MOTA	12945	0	LYS F	491	102.566	100.234	36.120	1.00 74.45	8
MOTA	12946	N	ALA F	492	104.513		36.317	1.00154.72	7
MOTA	12947	CA	ALA F	492	105.276		36.627	1.00153.72	6
ATOM	12948	CB	ALA F	492	106.727		36.957	1.00 87.63	6
ATOM	12949	C	ALA F	492	104.650		37.780	1.00152.88	6
ATOM	12950	0	ALA F	492	104.627		37.761	1.00153.45	8
ATOM	12951	N	ARG F	493	104.131		38.778	1.00 91.36	7
ATOM	12952	CA	ARG F	493	103.521		39.922	1.00 90.04	6
ATOM	12953	CB	ARG F	493	103.115		40.974	1.00125.67	6
MOTA	12954	CG	ARG F	493	104.294		41.552	1.00125.72	6
ATOM	12955	CD	ARG F	493	105.274		42.222	1.00125.76	6
MOTA MOTA	12956 12957	NE CZ	ARG F	493 493	106.494 107.459		42.602	1.00126.66	7
ATOM	12958	NH1	ARG F	493	107.459		43.347 43.800	1.00127.10	6 7
MOTA	12959	NH2	ARG F	493	107.530		43.638	1.00126.62 1.00127.67	7
ATOM	12960	C	ARG F	493	102.320		39.541	1.00127.07	6
ATOM	12961	Õ	ARG F	493	102.153		40.055	1.00 89.29	8
ATOM	12962	N	LYS F	494	101.471		38.654	1.00 87.69	7
ATOM	12963	CA	LYS F	494	100.309		38.227	1.00 85.89	6
ATOM	12964	CB	LYS F	494	99.505		37.158	1.00135.77	6
ATOM	12965	CG	LYS F	494	98.483		36.416	1.00136.55	6
ATOM	12966	CD	LYS F	494	97.562	97.405	37.374	1.00137.12	6
ATOM	12967	CE		494	96.638	96.450	36.629	1.00136.57	6
MOTA	12968	NZ	LYS F		95.858		37.559	1.00136.70	7
ATOM	12969	С	LYS F	494	100.847		37.661	1.00 83.95	6
ATOM	12970	0	LYS F		100.259		37.852	1.00 83.51	8
MOTA	12971	N	ARG F		101.975		36.964	1.00 55.10	7
ATOM	12972	CA		495	102.607		36.402	1.00 53.32	6
MOTA	12973	CB		495	103.890		35.677	1.00 88.28	6
MOTA MOTA	12974	CG		495	103.732		34.596	1.00 89.56	6
ATOM	12975 12976	CD		495	104.991		33.753	1.00 90.19	6
ATOM	12977	NE CZ		495 495	104.966 105.882	98.309 98.367	32.686 31.730	1.00 91.11	7
ATOM	12978	NH1		495	105.862	97.488	31.730	1.00 92.51 1.00 92.23	6 7
ATOM	12979		ARG F	495	105.809	99.303	30.791	1.00 92.23	7
ATOM	12980	C		495	102.944		37.581	1.00 93.31	6
ATOM	12981	Ö		495	102.719	93.801	37.546	1.00 50.96	8
ATOM	12982	Ň		496	103.487	95.607	38.631	1.00 63.99	7
ATOM	12983	CA	LEU F		103.847	94.868	39.828	1.00 63.47	6
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ATOM 12985 CG LPU F 496 104 639 95 302 42 316 1 00 65 50 6 ATOM 12987 CD LPU F 496 105 97 94 498 42 213 1 100 65 116 63 63 63 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 64 65 65	ATOM	12984	СВ	LEU F	496	104.200	95.843	40.953	1.00 65.63	6
APOM 12987 CD2 LEU F 496				_						
ATOM 12987 CD2 LEU F 496 104.838 96.485 43.231 1.00 65.48 6 ATOM 12988 C LEU F 496 102.814 92.828 40.570 1.00 63.43 8 ATOM 12989 N CLU F 497 101.456 94.560 40.139 1.00 122.41 7 ATOM 12991 CA GLU F 497 101.456 94.560 40.139 1.00 122.41 7 ATOM 12992 CB GLU F 497 101.456 94.560 40.296 1.00133.57 6 ATOM 12993 CG GLU F 497 98.793 95.631 41.428 1.00135.30 6 ATOM 12994 CD GLU F 497 97.354 96.224 41.402 1.00135.30 6 ATOM 12995 OEI GLU F 497 97.354 96.224 41.402 1.00135.97 6 ATOM 12995 OEI GLU F 497 97.355 95.682 42.279 1.00136.03 8 ATOM 12996 OEZ GLU F 497 96.541 95.862 42.279 1.00137.23 8 ATOM 12997 C GLU F 497 100.154 91.436 40.107 1.00132.56 8 ATOM 12998 N VAL F 498 100.272 92.828 38.250 1.007.21.13 8 ATOM 12999 N VAL F 498 100.272 92.828 38.250 1.007.21.19 6 ATOM 13001 CB VAL F 498 99.97 91.300 34.799 1.00 7.4 6 ATOM 13002 CG1 VAL F 498 99.97 91.300 34.799 1.00 7.2 46 ATOM 13003 CG2 VAL F 498 100.221 92.378 35.824 1.00 72.24 6 ATOM 13006 N VAL F 498 101.379 89.669 37.478 1.00 72.28 6 ATOM 13007 CA VAL F 498 101.379 89.669 37.478 1.00 72.24 6 ATOM 13008 CG VAL F 498 101.379 89.669 37.478 1.00 72.24 6 ATOM 13007 CA VAL F 499 103.923 90.831 37.550 1.00 72.24 6 ATOM 13008 CG VAL F 499 103.923 90.831 37.550 1.00 72.24 6 ATOM 13007 CA VAL F 499 103.923 90.831 37.550 1.00 75.246 6 ATOM 13008 CG VAL F 499 103.923 90.831 37.550 1.00 75.246 6 ATOM 13006 CG VAL F 499 103.923 90.831 37.550 1.00 54.82 6 ATOM 13007 CA VAL F 499 105.937 91.85 37.601 1.00 55.51 8 ATOM 13010 CG2 VAL F 499 105.937 91.86 37.478 1.00 42.33 6 ATOM 13010 CG2 VAL F 499 105.937 91.86 37.478 1.00 70.14 6 ATOM 13011 C VAL F 499 105.937 91.86 37.478 1.00 70.16 8 ATOM 13012 C C VAL F 499 105.937 91.86 37.478 1.00 70.10 6 ATOM 13013 N ARG F 500 103.823 89.859 41.199 1.00 57.29 6 ATOM 13014 CA ARG F 500 103.823 89.859 41.199 1.00 57.99 6 ATOM 13015 CB ARG F 500 103.823 89.859 41.199 1.00 57.39 6 ATOM 13015 CB ARG F 500 103.823 89.859 41.99 1.00 75.99 6 ATOM 13013 N ARG F 500 103.838 89.91 40.43 43.380 1.00107.04 6 ATOM 13022 N HA ARG F 500 103.838 88.910 39.467										
ATOM 12989 C LEU F 496 102.656 93.996 40.216 1.00 63.38 6 ATOM 12990 N GLU F 497 101.456 94.560 40.139 1.00122.41 7 ATOM 12991 CA GLU F 497 100.265 93.789 40.471 1.00122.51 7 ATOM 12992 CB GLU F 497 98.753 95.631 41.428 1.00135.30 6 ATOM 12994 CD GLU F 497 98.753 95.631 41.428 1.00135.30 6 ATOM 12995 OE1 GLU F 497 97.364 96.224 41.402 1.00135.97 6 ATOM 12996 OE2 GLU F 497 97.065 97.047 40.507 1.00136.03 8 ATOM 12996 OE2 GLU F 497 97.065 97.047 40.507 1.00136.03 8 ATOM 12997 C GLU F 497 97.065 97.047 40.507 1.00136.03 8 ATOM 12998 O GLU F 497 100.124 92.573 39.553 1.00122.13 6 ATOM 12999 N VAL F 498 100.272 92.828 38.250 1.00 72.19 7 ATOM 13000 CA VAL F 498 100.242 91.774 37.249 1.00 70.74 6 ATOM 13001 CB VAL F 498 100.242 91.774 37.249 1.00 70.74 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 72.47 6 ATOM 13006 N VAL F 498 101.480 90.891 37.395 1.00 72.47 6 ATOM 13006 N VAL F 498 101.480 90.891 37.395 1.00 70.74 6 ATOM 13007 CA VAL F 498 101.480 90.891 37.395 1.00 70.14 6 ATOM 13008 CB VAL F 499 102.648 91.527 37.426 1.00 75.74 7 ATOM 13000 CA VAL F 498 99.927 91.300 34.799 1.00 70.74 6 ATOM 13001 CC VAL F 498 99.927 91.300 34.799 1.00 70.74 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 70.74 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 70.44 6 ATOM 13005 O VAL F 499 102.648 91.527 37.426 1.00 55.74 7 ATOM 13007 CA VAL F 499 103.933 90.831 37.550 1.00 70.14 6 ATOM 13010 CG2 VAL F 499 103.933 90.831 37.550 1.00 70.14 6 ATOM 13010 CG2 VAL F 499 103.933 90.831 37.550 1.00 43.47 6 ATOM 13010 CG2 VAL F 499 105.377 91.067 37.945 1.00 43.47 6 ATOM 13010 CG2 VAL F 499 105.377 91.067 37.945 1.00 55.51 7 ATOM 13010 CG2 VAL F 499 105.377 91.067 37.945 1.00 55.51 7 ATOM 13011 C VAL F 499 105.377 91.067 37.945 1.00 55.51 7 ATOM 13012 C VAL F 499 105.377 91.067 37.945 1.00 55.51 7 ATOM 13013 N ARG F 500 103.833 89.859 41.199 1.00 57.29 6 ATOM 13013 N ARG F 500 103.833 89.859 41.199 1.00 57.29 6 ATOM 13013 C ARG F 500 103.838 89.859 41.199 1.00 57.39 6 ATOM 13022 C ARG F 500 103.838 89.869 31.399 1.00 56.			CD2							
ATOM 12999			С	LEU F	496	102.656	93.996	40.216	1.00 63.38	6
ATOM 12991 CA GLU F 497 101.456 94.560 40.139 1.00122.45 6 ATOM 12992 CB GLU F 497 98.793 95.631 40.296 1.00133.57 6 ATOM 12993 CG GLU F 497 98.793 95.631 41.428 1.00133.57 6 ATOM 12994 CD GLU F 497 97.354 96.224 41.428 1.00133.57 6 ATOM 12996 OE2 GLU F 497 97.055 97.047 40.507 1.00136.03 8 ATOM 12996 OE2 GLU F 497 97.055 97.047 40.507 1.00136.03 8 ATOM 12997 C GLU F 497 100.218 92.573 39.553 1.00122.13 6 ATOM 12998 O GLU F 497 100.218 92.573 39.553 1.00122.13 6 ATOM 12998 O GLU F 497 100.218 92.573 39.553 1.00122.13 6 ATOM 13000 CA VAL F 498 100.227 92.828 38.250 1.00 72.19 7 ATOM 13001 CB VAL F 498 100.221 92.378 35.824 1.00 72.47 6 ATOM 13002 CG1 VAL F 498 99.927 91.300 34.799 1.00 72.74 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 72.74 6 ATOM 13006 C VAL F 498 101.480 90.891 37.395 1.00 72.14 6 ATOM 13006 C VAL F 498 101.480 90.891 37.395 1.00 72.14 6 ATOM 13006 C VAL F 499 103.933 90.831 37.550 1.00 72.28 6 ATOM 13006 C VAL F 499 103.933 90.831 37.550 1.00 72.28 6 ATOM 13007 CA VAL F 499 103.933 90.831 37.550 1.00 70.46 6 ATOM 13008 CB VAL F 499 103.973 90.831 37.550 1.00 70.46 6 ATOM 13001 C VAL F 499 103.973 90.831 37.550 1.00 70.43 7 ATOM 13001 C VAL F 499 103.973 90.831 37.550 1.00 74.27 6 ATOM 13010 CG2 VAL F 499 103.973 90.831 37.550 1.00 74.27 6 ATOM 13010 CG2 VAL F 499 103.973 90.831 37.550 1.00 74.26 6 ATOM 13011 C VAL F 499 103.971 89.982 38.801 1.00 55.74 7 ATOM 13010 CG2 VAL F 499 103.971 89.982 38.801 1.00 55.74 7 ATOM 13011 C VAL F 499 103.971 89.982 38.801 1.00 55.75 6 ATOM 13012 O VAL F 499 103.971 89.982 38.801 1.00 55.75 6 ATOM 13013 N ARG F 500 103.809 90.614 39.959 1.00 56.20 7 ATOM 13014 C ARG F 500 103.809 90.614 39.959 1.00 56.20 7 ATOM 13015 C ARG F 500 103.809 90.614 39.959 1.00 57.39 6 ATOM 13010 CG2 VAL F 499 103.971 89.982 38.801 1.00 55.79 6 ATOM 13010 CG2 VAL F 501 101.535 87.90.60 43.470 1.00 57.79 8 ATOM 13010 CG2 VAL F 501 101.535 87.90.60 43.470 1.00 57.79 8 ATOM 13010 CG2 VAL F 501 101.535 87.90.60 43.470 1.00 57.79 8 ATOM 13010 CG2 VAL F 501 101.535 87.93 83.858		12989		LEU F	496	102.814	92.828	40.570	1.00 63.43	8
ATOM 12992 CB GLU F 497 98.996 94.636 40.296 1.00133.57 6 ATOM 12994 CD GLU F 497 97.353 95.631 41.428 1.00133.50 6 ATOM 12995 CEI GLU F 497 97.055 97.047 40.507 1.00136.03 8 ATOM 12996 CEZ GLU F 497 97.055 97.047 40.507 1.00136.03 8 ATOM 12997 C GLU F 497 97.055 97.047 40.507 1.00137.23 8 ATOM 12998 O GLU F 497 100.218 92.573 39.553 1.00122.13 6 ATOM 12999 N VAL F 498 100.272 92.828 38.250 1.0072.19 7 ATOM 13000 CA VAL F 498 100.221 92.378 35.824 1.007 72.19 7 ATOM 13001 CB VAL F 498 100.221 92.378 35.824 1.007 72.14 6 ATOM 13002 CG1 VAL F 498 99.927 91.300 34.799 1.00 72.14 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 72.14 6 ATOM 13004 C VAL F 498 101.379 89.669 37.478 1.00 70.14 6 ATOM 13005 O VAL F 498 101.399 89.669 37.478 1.00 70.14 6 ATOM 13006 N VAL F 499 103.923 90.831 37.395 1.00 70.14 6 ATOM 13007 CA VAL F 499 103.923 90.831 37.550 1.00 55.74 7 ATOM 13000 CG1 VAL F 499 103.923 90.831 37.550 1.00 55.74 7 ATOM 13001 CB VAL F 499 103.923 91.807 37.945 1.00 75.14 6 ATOM 13001 CG VAL F 499 103.923 91.807 37.945 1.00 55.74 7 ATOM 13001 CG VAL F 499 103.923 91.807 37.945 1.00 55.74 7 ATOM 13001 CG VAL F 499 103.923 91.807 37.945 1.00 55.74 7 ATOM 13001 CG VAL F 499 103.923 91.807 37.945 1.00 55.74 7 ATOM 13010 CG2 VAL F 499 103.923 91.807 37.945 1.00 55.74 7 ATOM 13010 CG2 VAL F 499 103.923 91.815 37.601 1.00 43.47 6 ATOM 13010 CG2 VAL F 499 103.823 89.859 41.199 1.00 55.59 6 ATOM 13010 CG2 VAL F 499 105.211 92.548 36.268 1.00 42.33 6 ATOM 13010 CG2 VAL F 499 103.823 89.859 41.199 1.00 55.59 6 ATOM 13010 CG2 VAL F 499 103.823 89.859 41.199 1.00 55.79 6 ATOM 13010 CG ARG F 500 103.887 90.764 42.416 1.00104.33 6 ATOM 13011 C VAL F 499 103.823 89.859 41.199 1.00 55.29 6 ATOM 13012 N ARG F 500 103.887 90.764 42.416 1.00107.98 6 ATOM 13013 N ARG F 500 103.887 90.764 42.416 1.00107.98 6 ATOM 13010 C C ARG F 500 103.881 88.910 38.407 1.00 75.03 7 ATOM 13010 C C ARG F 500 103.881 88.910 38.407 1.00 75.03 7 ATOM 13020 C ARG F 500 103.857 90.764 42.416 1.00107.79 6 ATOM 13021 C ALA F 501 101.611 89.201 40.47	ATOM	12990	N	GLU F	497	101.456	94.560	40.139	1.00122.41	7
ATOM 12994 CD GLU F 497 97.354 95.631 41.428 1.00135.39 6 ATOM 12995 OE1 GLU F 497 97.354 96.224 41.402 1.00135.97 6 ATOM 12995 OE2 GLU F 497 97.065 97.047 40.507 1.00136.03 8 ATOM 12996 OE2 GLU F 497 96.541 95.862 42.279 1.00137.23 8 ATOM 12999 OE2 GLU F 497 100.128 92.573 39.553 1.00122.13 6 ATOM 12999 N O GLU F 497 100.124 91.436 40.017 1.00122.56 8 ATOM 12999 N VAL F 498 100.272 92.828 83.250 1.00 72.19 7 ATOM 13000 CG VAL F 498 100.242 91.774 37.249 1.00 70.744 6 ATOM 13001 CB VAL F 498 99.927 91.300 34.799 1.00 70.74 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 70.74 6 ATOM 13004 C VAL F 498 101.379 89.669 37.479 1.00 70.70 6 ATOM 13005 O VAL F 498 101.379 89.669 37.478 1.00 70.06 8 ATOM 13006 N VAL F 499 103.923 90.831 37.550 1.00 70.14 6 ATOM 13007 CA VAL F 499 103.923 90.831 37.550 1.00 54.82 6 ATOM 13009 CG1 VAL F 499 105.093 91.815 37.601 1.00 43.37 6 ATOM 13010 CG2 VAL F 499 105.093 91.815 37.601 1.00 43.37 6 ATOM 13010 CG2 VAL F 499 105.093 91.815 37.601 1.00 43.37 6 ATOM 13010 CG2 VAL F 499 105.211 92.548 36.268 1.00 42.33 6 ATOM 13011 C VAL F 499 105.371 99.82 38.801 1.00 55.51 8 ATOM 13011 C VAL F 499 105.211 92.548 36.268 1.00 42.33 6 ATOM 13011 C VAL F 499 104.171 88.775 38.724 1.00 55.51 8 ATOM 13013 N ARG F 500 103.809 90.614 39.995 1.00 56.20 7 ATOM 13016 CG ARG F 500 103.809 90.614 39.995 1.00 56.20 7 ATOM 13017 CD ARG F 500 103.809 90.614 39.995 1.00 57.29 6 ATOM 13018 NE ARG F 500 103.809 90.614 39.995 1.00 57.29 6 ATOM 13010 CC ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13012 N ARG F 500 103.809 90.614 39.995 1.00 57.09 6 ATOM 13020 C ARG F 500 103.809 90.609 37.409 1.00 70	ATOM	12991	CA	GLU F	497	100.265	93.789	40.471	1.00122.58	6
ATOM 12994 CD GLU F 497 97.354 96.224 41.402 1.00135.97 6 ATOM 12996 OE2 GLU F 497 97.065 97.047 40.507 1.00136.03 8 ATOM 12997 C GLU F 497 96.541 95.862 42.279 1.00137.23 8 ATOM 12998 O GLU F 497 100.128 92.573 39.553 1.00122.13 6 ATOM 12998 O GLU F 497 100.154 91.436 40.017 1.00122.56 8 ATOM 12999 N VAL F 498 100.272 92.828 38.250 1.0072.19 7 ATOM 13000 CA VAL F 498 100.221 92.378 35.824 1.00 72.47 6 ATOM 13001 CB VAL F 498 100.221 92.378 35.824 1.00 72.47 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 70.247 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 70.14 6 ATOM 13006 N VAL F 498 101.480 90.891 37.395 1.00 70.14 6 ATOM 13006 N VAL F 499 101.379 89.669 37.478 1.00 70.16 8 ATOM 13007 CA VAL F 499 102.648 91.527 37.426 1.00 55.74 7 ATOM 13008 CB VAL F 499 103.973 90.831 37.550 1.00 54.82 6 ATOM 13000 CG2 VAL F 499 105.093 91.815 37.501 1.00 43.37 6 ATOM 13010 CG2 VAL F 499 105.93 91.815 37.501 1.00 43.37 6 ATOM 13011 C VAL F 499 105.93 91.815 37.601 1.00 43.37 6 ATOM 13012 O VAL F 499 103.971 89.882 38.801 1.00 55.59 6 ATOM 13013 N ARG F 500 103.899 90.614 99.959 1.00 56.20 7 ATOM 13014 CA ARG F 500 103.899 90.614 99.959 1.00 56.20 7 ATOM 13015 CB ARG F 500 103.889 90.614 99.959 1.00 55.29 6 ATOM 13016 CG ARG F 500 104.844 91.519 42.863 1.00107.51 7 ATOM 13017 CD ARG F 500 104.844 91.519 42.863 1.00107.58 6 ATOM 13018 NE ARG F 500 104.844 91.519 42.863 1.00107.51 7 ATOM 13010 CC ARG F 500 106.035 90.560 43.038 1.00107.94 6 ATOM 13010 CC ARG F 500 108.899 90.614 39.959 1.00 57.29 6 ATOM 13012 C ARG F 500 106.035 90.560 43.038 1.00107.51 7 ATOM 13020 NH1 ARG F 500 108.899 90.633 43.380 1.00107.51 7 ATOM 13020 NH1 ARG F 500 108.899 90.633 43.380 1.00107.51 7 ATOM 13020 NH ARG F 500 108.899 90.633 43.380 1.00107.51 8 ATOM 13020 NH ARG F 500 108.899 90.633 43.380 1.00107.51 8 ATOM 13020 NH ARG F 500 106.035 90.560 43.038 1.00107.51 8 ATOM 13020 NH ARG F 500 106.035 90.560 43.038 1.00107.51 8 ATOM 13020 NH ARG F 500 106.035 90.560 43.038 1.00107.51 8 ATOM 13030 CC PHE F 502 101.538 87.338 88.91 1.00	ATOM	12992	CB	GLU F			94.636	40.296		
ATOM 12995 OE1 GLU F 497 97.065 97.047 40.507 1.00136.03 8 ATOM 12997 C GLU F 497 100.128 92.573 39.553 1.00122.13 6 ATOM 12998 O GLU F 497 100.154 91.436 40.017 1.00122.15 6 ATOM 12999 N VAL F 498 100.272 92.828 38.250 1.0072.19 7 ATOM 13001 CB VAL F 498 100.242 91.774 37.249 1.00 70.74 6 ATOM 13002 CG1 VAL F 498 100.221 92.378 35.824 1.00 70.74 6 ATOM 13003 CG2 VAL F 498 99.927 91.300 34.799 1.00 70.74 6 ATOM 13004 C VAL F 498 101.379 89.669 37.478 1.00 70.06 8 ATOM 13005 O VAL F 498 101.379 89.669 37.478 1.00 70.06 8 ATOM 13006 N VAL F 499 102.648 91.527 37.426 1.00 70.06 8 ATOM 13007 CA VAL F 499 105.093 91.815 37.501 1.00 54.82 6 ATOM 13008 CB VAL F 499 105.093 91.815 37.601 1.00 43.37 6 ATOM 13010 CG2 VAL F 499 105.093 91.815 37.601 1.00 43.37 6 ATOM 13011 C VAL F 499 105.93 91.815 37.601 1.00 43.37 6 ATOM 13011 C VAL F 499 105.93 91.815 37.601 1.00 43.37 6 ATOM 13011 C VAL F 499 105.93 91.815 37.601 1.00 43.37 6 ATOM 13011 C VAL F 499 103.923 90.614 39.959 1.00 55.59 6 ATOM 13012 O VAL F 499 103.91 99.882 38.801 1.00 55.59 6 ATOM 13013 N ARG F 500 103.809 90.614 39.959 1.00 56.20 7 ATOM 13014 CA ARG F 500 103.809 90.614 39.959 1.00 55.21 8 ATOM 13015 CB ARG F 500 103.809 90.614 39.959 1.00 57.29 6 ATOM 13010 CG2 ARG F 500 103.809 90.614 39.959 1.00 56.20 7 ATOM 13010 C ARG F 500 103.809 90.614 39.959 1.00 57.29 6 ATOM 13012 O VAL F 499 105.013 89.885 41.199 1.00 57.29 6 ATOM 13013 N ARG F 500 103.809 90.614 39.959 1.00 57.07 8 ATOM 13010 C ARG F 500 103.809 90.614 39.959 1.00 57.07 8 ATOM 13012 O ARG F 500 103.809 90.614 39.959 1.00 57.07 8 ATOM 13013 C ARG F 500 103.809 90.614 39.959 1.00 57.07 8 ATOM 13013 C ARG F 500 105.587 90.764 42.416 1.00104.33 6 ATOM 13013 C B ARG F 500 105.587 90.560 43.338 1.00107.04 6 ATOM 13020 NH ARG F 500 105.587 90.560 43.338 1.00107.05 6 ATOM 13020 NH ARG F 500 105.587 90.560 43.338 1.00107.05 6 ATOM 13020 C ARG F 500 105.587 90.560 43.338 1.00107.07 6 ATOM 13022 C ARG F 500 105.588 88.910 39.467 1.00 75.09 7 ATOM 13030 C B ARG F 500 105.589 88.910 39.467 1.00 75.09 7 AT	ATOM	12993	CG	GLU F	497			41.428		
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	MOTA	13039	O	PHE F	502	102.986	84.417	38.659	1.00 75.35	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13040 13041 13042 13043 13044 13045 13046 13047 13048 13049 13050 13051 13052 13053 13054	N CA CB CG CD1 CD2 C O N CA CB CG OD1 OD2 C	LEU F LEU F LEU F LEU F LEU F ASP F ASP F ASP F ASP F ASP F ASP F	503 503 503 503 503 503 503 503 504 504 504 504 504 504	104.227 105.341 106.236 107.595 108.292 108.416 104.901 105.648 103.684 103.169 102.127 101.593 100.415 102.356 102.550	86.300 85.777 86.941 86.642 85.474 87.913 84.966 84.126 85.212 84.494 85.344 84.671 84.246 84.568 83.180	38.612 39.385 39.812 40.432 39.727 40.343 40.601 41.101 41.070 42.225 42.953 44.202 44.201 45.187 41.790	1.00144.01 1.00143.30 1.00 62.42 1.00 61.59 1.00 61.85 1.00 61.12 1.00143.57 1.00143.43 1.00 65.46 1.00 65.60 1.00116.60 1.00117.92 1.00118.18 1.00 65.38	766666687666886
ATOM ATOM	13055 13056	O N	ASP F SER F	504 505	101.956 102.689	83.086 82.169	40.711 42.640	1.00 64.75 1.00171.49	8 7
MOTA	13057	CA	SER F	505	102.148	80.846	42.358	1.00172.26	6
ATOM	13058	CB	SER F	505	100.621	80.870	42.392	1.00142.22	6
MOTA ATOM	13059 13060	OG C	SER F	505 505	100.103 102.594	81.468 80.417	41.213 40.974	1.00142.34 1.00172.09	8 6
MOTA	13061	0	SER F	505	103.662	80.809	40.502	1.00172.05	8
MOTA	13062	N	GLY F	506	101.756	79.621	40.322	1.00136.01	7
MOTA	13063	CA	GLY F	506	102.073	79.153	38.991	1.00135.48	6
MOTA	13064	C	GLY F	506	102.068	80.270	37.968	1.00134.91	6
ATOM ATOM	13065 13066	O N	GLY F ASN F	506 507	102.060 102.068	81.454 79.867	38.317 36.701	1.00134.80 1.00 83.16	8 7
ATOM	13067	CA	ASN F	507	102.071	80.758	35.548	1.00 83.10	6
MOTA	13068	CB	ASN F	507	101.599	82.175	35.885	1.00 73.42	6
MOTA	13069	CG	ASN F	507	101.890	83.169	34.755	1.00 72.57	6
ATOM	13070	OD1	ASN F	507	101.037	83.458	33.917	1.00 72.40	8
MOTA MOTA	13071 13072	ND2 C	ASN F	507 507	103.112 103.445	83.674 80.881	34.726 34.951	1.00 72.19 1.00 80.94	7 6
ATOM	13072	0	ASN F	507	103.445 104.454	80.812	35.646	1.00 80.94	8
MOTA	13074	N	ARG F	508	103.441	81.075	33.641	1.00 31.98	7
ATOM	13075	CA	ARG F	508	104.609	81.268	32.808	1.00 31.15	6
ATOM	13076	CB	ARG F	508	105.322	79.939	32.520	1.00 80.17	6
MOTA	13077	CG	ARG F	508	105.405	78.991	33.711	1.00 81.68	6
MOTA ATOM	13078 13079	CD NE	ARG F	508 508	106.294 106.313	77.766 76.885	33.470 34.644	1.00 82.38 1.00 82.32	6 7
ATOM	13075	CZ	ARG F		107.069	75.795	34.768	1.00 82.37	6
ATOM	13081		ARG F	508	107.891	75.432	33.788	1.00 81.92	7
ATOM	13082		ARG F	508	106.994	75.060	35.872	1.00 81.71	7
ATOM	13083	C	ARG F		103.811	81.686	31.595	1.00 30.98	6
MOTA MOTA	13084 13085	O N	ARG F PRO F	508 509	103.053 103.905	80.880 82.953	31.084 31.158	1.00 30.86 1.00 57.22	8 7
ATOM	13085	CD	PRO F	509	104.693	84.033	31.771	1.00 37.22	6
ATOM	13087	CA	PRO F	509	103.169	83.451	29.986	1.00 57.41	6
MOTA	13088	CB	PRO F	509	103.974	84.667	29.576	1.00 44.60	6
ATOM	13089	CG	PRO F	509	104.334	85.238	30.903	1.00 45.30	6
ATOM ATOM	13090 13091	С О	PRO F	509 509	103.021 103.623	82.452 82.612	28.838 27.775	1.00 58.61 1.00 58.75	6 8
ATOM	13091	N	GLU F	510	103.023	81.423	29.075	1.00137.55	7
ATOM	13093	CA	GLU F	510	101.943	80.376	28.102	1.00137.33	6
ATOM	13094	CB	GLU F	510	101.523	79.088	28.822	1.00 63.47	6
MOTA	13095	CG	GLU F	510	102.671	78.300	29.436	1.00 65.36	6

ATOM 13098 OBE GLU F 510	MOTA	13096	CD	GLU F !	510	102.410	77.895	30.878	1.00 67.59	6
ATOM 13100 O GUU F 510 100.808 80.877 27.234 1.00139.486 6 ATOM 13101 N TRP F 511 99.784 81.394 27.902 1.00 36.04 7 ATOM 13102 CA TRP F 511 98.602 81.943 27.262 1.00 36.04 7 ATOM 13103 CB TRP F 511 98.785 82.837 28.249 1.00106.42 6 ATOM 13105 CD2 TRP F 511 98.760 83.855 28.899 1.00106.87 6 ATOM 13106 CC2 TRP F 511 98.760 83.855 28.899 1.00106.98 6 ATOM 13107 CE3 TRP F 511 99.701 85.828 29.538 1.00107.23 6 ATOM 13108 CD1 TRP F 511 99.801 86.160 29.717 1.00107.48 6 ATOM 13108 CD1 TRP F 511 99.803 83.610 29.717 1.00107.32 6 ATOM 13110 CZ2 TRP F 511 99.803 83.610 29.717 1.00107.63 7 ATOM 13111 CZ3 TRP F 511 99.912 87.201 29.636 1.00107.53 6 ATOM 13111 CZ3 TRP F 511 99.912 87.201 29.636 1.00107.53 6 ATOM 13113 CT TRP F 511 98.932 82.737 26.007 1.003 4.42 6 ATOM 13114 O TRP F 511 98.932 82.737 26.007 1.003 4.42 6 ATOM 13115 N MET F 512 99.247 81.991 24.964 1.00107.57 6 ATOM 13116 CA MET F 512 99.247 81.991 24.964 1.00107.57 6 ATOM 13117 CB MET F 512 99.247 81.991 24.964 1.00107.57 6 ATOM 13118 CG MET F 512 100.767 84.612 24.147 1.00107.61 7 ATOM 13112 CH2 MET F 512 100.767 84.612 24.147 1.00109.61 16 ATOM 13112 C CE MET F 512 100.767 84.612 24.147 1.00109.61 16 ATOM 13112 C CE MET F 512 99.247 81.991 24.964 1.00109.61 16 ATOM 13113 C CE MET F 512 100.767 84.612 24.147 1.00109.61 16 ATOM 13112 C CE MET F 512 99.788 84.775 25.623 1.00110.11 6 ATOM 13120 C CE MET F 512 99.787 81.095 23.007 1.0055.60 8 ATOM 13121 C CE MET F 513 98.912 80.979 27.8170 1.00109.61 16 ATOM 13122 C C LEF F 513 98.792 78.777 23.259 1.00110.11 6 ATOM 13123 N LEF F 513 98.913 82.927 83.008 1.00110.11 6 ATOM 13124 C C LEF F 513 99.914 80.909 23.009 1.00134.92 6 ATOM 13125 C C LEF F 513 99.717 77.261 25.816 1.00117.50 7 ATOM 13126 C C LEF F 513 99.797 78.777 23.259 1.00117.50 7 ATOM 13127 C C LEF F 513 99.917 77.261 25.816 1.00117.50 7 ATOM 13128 C C LEF F 513 99.917 77.261 25.816 1.00117.50 7 ATOM 13126 C C LEF F 513 99.917 77.261 25.816 1.00117.50 7 ATOM 13137 C LEF F 514 99.937 77.067 21.818 1.0057.10 7.00 7.00 7.00 7.00 7.00 7.00 7.00										
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ATOM 13143 O ALA F 515 95.379 74.100 22.442 1.00110.12 8 ATOM 13144 N ALA F 516 94.832 74.698 20.344 1.00 72.87 7 ATOM 13145 CA ALA F 516 93.449 75.070 20.707 1.00 71.59 6 ATOM 13146 CB ALA F 516 92.749 75.771 19.537 1.00 13.87 6 ATOM 13147 C ALA F 516 92.608 73.885 21.169 1.00 70.92 6 ATOM 13148 O ALA F 516 92.942 72.730 20.911 1.00 71.10 8 ATOM 13149 N VAL F 517 91.500 74.167 21.843 1.00 66.87 7 ATOM 13150 CA VAL F 517 90.667 73.079 22.336 1.00 66.50 6			CB	ALA F	515		72.882			6
ATOM 13144 N ALA F 516 94.832 74.698 20.344 1.00 72.87 7 ATOM 13145 CA ALA F 516 93.449 75.070 20.707 1.00 71.59 6 ATOM 13146 CB ALA F 516 92.749 75.771 19.537 1.00 13.87 6 ATOM 13147 C ALA F 516 92.608 73.885 21.169 1.00 70.92 6 ATOM 13148 O ALA F 516 92.942 72.730 20.911 1.00 71.10 8 ATOM 13149 N VAL F 517 91.500 74.167 21.843 1.00 66.87 7 ATOM 13150 CA VAL F 517 90.667 73.079 22.336 1.00 66.50 6										6
ATOM 13145 CA ALA F 516 93.449 75.070 20.707 1.00 71.59 6 ATOM 13146 CB ALA F 516 92.749 75.771 19.537 1.00 13.87 6 ATOM 13147 C ALA F 516 92.608 73.885 21.169 1.00 70.92 6 ATOM 13148 O ALA F 516 92.942 72.730 20.911 1.00 71.10 8 ATOM 13149 N VAL F 517 91.500 74.167 21.843 1.00 66.87 7 ATOM 13150 CA VAL F 517 90.667 73.079 22.336 1.00 66.50 6										8
ATOM 13146 CB ALA F 516 92.749 75.771 19.537 1.00 13.87 6 ATOM 13147 C ALA F 516 92.608 73.885 21.169 1.00 70.92 6 ATOM 13148 O ALA F 516 92.942 72.730 20.911 1.00 71.10 8 ATOM 13149 N VAL F 517 91.500 74.167 21.843 1.00 66.87 7 ATOM 13150 CA VAL F 517 90.667 73.079 22.336 1.00 66.50 6							74.698			
ATOM 13147 C ALA F 516 92.608 73.885 21.169 1.00 70.92 6 ATOM 13148 O ALA F 516 92.942 72.730 20.911 1.00 71.10 8 ATOM 13149 N VAL F 517 91.500 74.167 21.843 1.00 66.87 7 ATOM 13150 CA VAL F 517 90.667 73.079 22.336 1.00 66.50 6										
ATOM 13148 O ALA F 516 92.942 72.730 20.911 1.00 71.10 8 ATOM 13149 N VAL F 517 91.500 74.167 21.843 1.00 66.87 7 ATOM 13150 CA VAL F 517 90.667 73.079 22.336 1.00 66.50 6										6
ATOM 13149 N VAL F 517 91.500 74.167 21.843 1.00 66.87 7 ATOM 13150 CA VAL F 517 90.667 73.079 22.336 1.00 66.50 6										8
	MOTA	13149	N	VAL F	517	91.500	74.167	21.843		7
ATOM 13151 CB VAL F 517 91.093 72.689 23.766 1.00 95.37 6										
	MOTA	13151	CB	VAL F	517	91.093	72.689	23.766	1.00 95.37	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13152 13153 13154 13155 13156 13157 13158 13159 13160 13161 13162 13163 13164 13165 13166 13170 13171 13172 13173 13174 13175 13177 13177 13177 13177 13177 13177 13177 13178 13180 13181 13182 13183 13184 13185 13187 13188 13189 13191 13192 13193 13193 13193 13194	CG2 C O N CDA CB CG C O N CA CB CGC C O N CA CB CGC C O N CA CB CCC C C C C C C C C C C C C C C C	PRO F 5.5 VAL F 5.5 LEU F 5.5 LEU F 5.5 LEU F 5.5 LEU F 5.6 PRO F	17 17 18 18 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	90.500 92.608 89.148 88.671 88.377 88.925 86.666 87.665 87.665 86.390 87.665 86.390 84.701 83.435 83.111 83.642 84.369 84.515 83.568 83.568 83.568 83.568 83.568 83.6401 85.417 82.400 81.813 82.783 80.907 81.666 79.335 79.616 79.335 79.616 79.335 79.711 76.787 78.095 79.095 79.095 79.095	71.341 72.668 73.321 74.339 72.385 71.439 72.405 71.894 70.852 71.432 70.741 71.277 70.391 72.729 69.441 69.349 68.443 67.161 65.976 65.492 67.161 68.203 66.735 66.118 64.761 63.844 66.460 67.306 65.838 64.761 63.844 66.460 67.306 65.838 64.761 63.844 66.460 67.306 65.838 64.761 63.844 66.460 67.306 65.838 64.761 63.844 66.460 67.687 68.450	24.129 23.877 22.348 22.853 21.766 20.778 21.675 20.266 20.134 22.732 23.058 23.275 24.284 25.003 26.209 25.437 23.568 22.352 24.313 23.736 24.865 27.000 24.731 22.760 22.476 22.193 21.997 21.281 20.567 21.473 21.986 21.494 23.854 23.976 24.743 24.316 25.092 23.752 24.006 25.667	1.00 96.39 1.00 94.93 1.00 65.39 1.00 65.01 1.00 77.59 1.00 85.26 1.00 76.43 1.00 84.37 1.00 85.38 1.00 75.42 1.00 75.98 1.00 24.60 1.00 22.89 1.00 39.08 1.00 39.89 1.00 39.89 1.00 24.74 1.00 27.17 1.00 54.99 1.00 58.04 1.00 59.39 1.00 28.37 1.00 28.37 1.00 52.35 1.00122.40 1.00 53.25 1.00121.72 1.00123.75 1.00 53.55 1.00121.72 1.00123.75 1.00 53.55 1.00121.72 1.00123.75 1.00 54.88 1.00 59.07 1.00 86.85 1.00 58.98 1.00 62.64 1.00 67.46	66687666687666687666668766668766668766687666
ATOM	13192	N	ALA F 5	23	78.406	68.450	23.752	1.00 61.86	7
ATOM	13195	C	ALA F 5	23	78.183	70.574	22.667	1.00 63.46	6
MOTA MOTA	13196 13197	O OXT		23 23	78.866 77.588	70.028 71.666	21.777 22.509	1.00 63.50 1.00 70.13	8 8
ATOM	13198	CB	ALA G 5	36	70.546	72.838	16.847	1.00131.36	6
MOTA MOTA	13199 13200	C 0	ALA G 5		71.436 71.660	74.311 75.515	18.678 18.831	1.00131.87 1.00131.63	6 8
ATOM	13200	N	ALA G 5		69.463	75.007	17.368	1.00131.03	7
ATOM	13202	CA	ALA G 5	36	70.180	73.839	17.954	1.00132.70	6
ATOM ATOM	13203 13204	N CA	THR G 5		72.248 73.488	73.359 73.673	19.125 19.819	1.00 95.20 1.00 93.78	7 6
ATOM	13204	CB	THR G 5		73.400	72.841	21.103	1.00182.64	6
MOTA	13206	OG1	THR G 5	37	72.380	72.939	21.840	1.00183.52	8
MOTA	13207	CG2	THR G 5	37	74.752	73.355	21.969	1.00182.66	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13208 13209 13210 13211 13212 13213 13214 13215 13216 13217 13218 132221 132231 132241 132242 132243 132245 132251 132251 132251 132251 132251 132251 132251 132251 132251 132251 132252 132253 1322551 1322551 1322551 1322551 1322552 1322553 1322552 1322553 1322553	C O N CA CB CG OD1 ND2 C O N CA CB CG OD1 OD2 C O N CA CB CG OD1 CD2 C O CA CB CG CD1 CD2 C C CD2 C C CD2 C C CD2 C C	LEU G 5. LEU G 5. LEU G 5. LEU G 5. ASN G 5. ASP G 5. LEU G 5.	33833333333333333333333333333333333333	74.683 75.787 74.437 75.440 74.779 73.626 76.445 77.627 75.936 76.7899 78.6894 77.8999 78.681 78.983 78.681 80.311 81.765 82.081 80.376 81.986 82.039 79.680 81.364 79.533 78.683 82.767 80.364 79.533 78.683 82.7654 83.7654 83.7657 83.293	73.396 73.397 73.542 73.328 73.283 72.468 74.471 74.282 75.656 76.884 77.922 79.581 80.76.712 76.749 76.121 76.649 76.121 77.620 75.773 75.764 77.620 75.773 74.080 75.950 77.019 77.685 77.685 77.685 77.685 77.685 77.685 77.685 77.897	14.256 15.620 15.677 17.074 14.678 14.276	1.00 77.54 1.00134.25 1.00135.12 1.00135.70 1.00135.15 1.00 77.57	687668687666886876666668766687687666886876666688
MOTA	13250	CB	LEU G 5	43	83.709	79.050	15.620	1.00134.25	6
MOTA	13252	CD1	LEU G 5	43	82.767	80.850	17.074	1.00135.70	6
									6
ATOM	13255	0	LEU G 5		86.180	77.807 76.202	13.841 14.764	1.00 76.88 1.00 68.61	8 7
MOTA MOTA	13256 13257	N CÁ	TYR G 5		84.897 85.975	75.215	14.813	1.00 69.05	6
ATOM	13258	CB	TYR G 5	44	85.582	74.025	15.690	1.00 71.08	6
ATOM	13259	CG CD1	TYR G 5		85.868	74.295 73.902	17.143 18.141	1.00 71.98 1.00 72.88	6 6
ATOM ATOM	13260 13261	CD1 CE1			84.989 85.233	73.902 74.220	18.141 19.474	1.00 72.88	6
ATOM	13262	CD2			87.005	75.003	17.515	1.00 72.46	6
ATOM	13263		TYR G 5		87.262	75.318	18.838	1.00 72.62	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13320 13321 13322 13323 13324 13325 13326 13327	CZ NH1 NH2 C O N CA CB	ARG G 550 ARG G 550 ARG G 550 ARG G 550 ARG G 550 ASN G 551 ASN G 551	90.940 92.199 90.058 93.533 94.505 93.622 94.910 94.710	81.628 81.577 82.373 77.004 77.441 76.266 75.894 75.198	5.037 4.622 4.382 8.655 8.054 9.758 10.327 11.680	1.00138.54 1.00139.13 1.00138.59 1.00 45.82 1.00 45.25 1.00 60.10 1.00 61.10 1.00 37.67	6 7 7 6 8 7 6
ATOM ATOM ATOM ATOM ATOM	13328 13329 13330 13331 13332 13333	CG OD1 ND2 C O N	ASN G 551 ASN G 551 ASN G 551 ASN G 552	96.031 96.508 96.624 95.614 96.783 94.891	74.889 73.748 75.908 74.966 74.615 74.579	12.395 12.391 13.013 9.339 9.516 8.290	1.00 36.35 1.00 35.15 1.00 35.68 1.00 63.12 1.00 63.81 1.00 69.42	6 8 7 6 8 7
ATOM ATOM ATOM ATOM ATOM ATOM	13334 13335 13336 13337 13338 13339	CA CB CG OD1 ND2 C	ASN G 552 ASN G 552 ASN G 552 ASN G 552 ASN G 552 ASN G 552	95.436 94.442 94.372 95.388 93.169 95.805	73.705 72.591 71.515 70.926 71.248 74.486	7.256 6.906 7.976 8.352 8.467 6.003	1.00 70.97 1.00117.93 1.00118.17 1.00118.04 1.00118.44 1.00 71.92	6 6 8 7 6
ATOM ATOM ATOM ATOM ATOM	13340 13341 13342 13343 13344 13345	O N CA CB CG	ASN G 552 ARG G 553 ARG G 553 ARG G 553 ARG G 553	96.810 94.998 95.306 94.268 93.017 92.387	74.186 75.484 76.297 77.404 76.966 78.151	5.368 5.642 4.467 4.259 3.510 2.778	1.00 71.09 1.00115.12 1.00116.95 1.00201.34 1.00204.50 1.00207.23	8 7 6 6 6
ATOM ATOM ATOM ATOM ATOM	13346 13347 13348 13349 13350 13351	NE CZ NH1 NH2 C	ARG G 553 ARG G 553 ARG G 553 ARG G 553 ARG G 553	91.118 90.443 90.916 89.291 96.686 97.207	77.808 78.621 79.831 78.229 76.922 77.597	2.136 1.327 1.051 0.797 4.657 3.767	1.00208.87 1.00208.87 1.00208.87 1.00208.87 1.00116.81 1.00116.82	7 6 7 6 8
ATOM ATOM ATOM ATOM ATOM ATOM	13352 13353 13354 13355 13356 13357	N CA CB CG CD1 CD2	LEU G 554 LEU G 554 LEU G 554 LEU G 554 LEU G 554	97.259 98.590 98.541 97.775 98.280 97.969	76.702 77.188 78.218 79.499 80.623 79.863	5.839 6.173 7.299 6.949 7.847 5.470	1.00 77.44 1.00 76.30 1.00 53.28 1.00 51.92 1.00 51.49 1.00 50.96	7 6 6 6 6 6
ATOM ATOM ATOM ATOM ATOM ATOM	13358 13359 13360 13361 13362 13363	C O N CA CB CG	LEU G 554 LEU G 554 LYS G 555 LYS G 555 LYS G 555 LYS G 555	99.375 100.577 98.665 99.287 98.342 98.939	75.976 76.036 74.868 73.615 72.804 71.538	6.607 6.812 6.757 7.128 8.016 8.586	1.00 76.50 1.00 76.74 1.00106.94 1.00108.58 1.00 80.09 1.00 79.42	6 8 7 6 6
ATOM ATOM ATOM ATOM ATOM ATOM	13364 13365 13366 13367 13368 13369	CD CE NZ C O	LYS G 555 LYS G 555 LYS G 555 LYS G 555 LYS G 555 LYS G 556	100.243 100.636 99.639 99.545 100.151 99.075	71.801 70.601 70.349 72.906 71.832 73.539	9.308 10.148 11.234 5.797 5.747 4.721	1.00 78.74 1.00 78.94 1.00 77.84 1.00110.46 1.00111.14 1.00135.11	6 7 6 8 7
ATOM ATOM ATOM ATOM ATOM ATOM	13370 13371 13372 13373 13374 13375	CA CB CG CD CE NZ	LYS G 556 LYS G 556 LYS G 556 LYS G 556 LYS G 556 LYS G 556	99.233 97.868 97.028 95.623 94.741 93.332	73.037 72.837 71.713 71.672 70.623 70.658	3.357 2.687 3.290 2.688 3.364 2.864	1.00135.51 1.00142.13 1.00142.48 1.00142.59 1.00142.54 1.00142.10	6 6 6 6 7

MOTA 13376 С LYS G 556 100.049 74.048 2.560 1.00135.82 6 MOTA 13377 LYS G 556 100.940 73.674 1.801 1.00136.26 8 0 ATOM 13378 Ν LEU G 557 99.737 75.330 2.731 1.00 76.16 7 ATOM 13379 CA LEU G 557 100.470 76.384 2.040 1.00 77.22 6 MOTA 13380 CB LEU G 557 99.564 77.602 1.785 1.00 59.29 6 1.00 58.84 ATOM 13381 CG LEU G 557 100.192 78.906 1.253 6 CD1 LEU G 557 101.043 78.626 1.00 57.92 MOTA 13382 0.034 6 CD2 LEU 99.105 79.909 MOTA 13383 G 557 0.923 1.00 58.61 6 76.772 MOTA 13384 С LEU G 557 101.679 2.893 1.00 78.63 6 MOTA 13385 0 LEU G 557 101.893 77.940 3.218 1.00 79.24 8 MOTA 13386 Ν LEU G 558 102.464 75.769 3.265 1.00169.46 7 LEU G 558 103.656 75.990 4.070 6 MOTA 13387 1.00171.40 CA LEU G 558 103.289 76.168 5.547 MOTA 13388 CB 1.00136.45 6 ATOM 13389 CG LEU G 558 103.083 77.619 5.980 1.00135.88 6 13390 LEU G 558 102.785 77.695 7.467 MOTA CD1 1.00136.62 6 13391 CD2 LEU G 558 104.343 78.398 5.665 1.00134.39 6 MOTA LEU G 558 13392 104.650 74.852 3.907 1.00172.39 MOTA С 6 105.807 75.084 13393 LEU G 558 3.554 1.00173.07 MOTA 0 8 104.204 73.624 7 MOTA 13394 ALA G 559 4.161 1.00188.38 Ν ATOM 13395 ALA G 559 105.076 72.467 4.008 1.00189.87 6 CA MOTA 13396 CB ALA G 559 104.358 71.196 4.429 1.00 39.70 6 ATOM 13397 ALA G 559 105.446 72.403 2.534 1.00190.61 6 С MOTA 13398 ALA G 559 106.343 71.660 2.133 1.00191.14 8 0 7 MOTA 13399 Ν GLN G 560 104.733 73.196 1.738 1.00128.76 MOTA 13400 CA GLN G 560 104.964 73.284 0.302 1.00128.89 6 103.797 72.657 -0.469MOTA 13401 CB GLN G 560 1.00121.79 6 MOTA 13402 CG GLN G 560 103.586 71.179 -0.1751.00122.17 6 GLN G 560 102.593 70.532 -1.118 13403 1.00122.43 ATOM CD6 OE1 GLN G 560 101.448 70.964 -1.221 MOTA 13404 1.00123.35 8 GLNG 560 103.028 69.487 -1.810 7 MOTA 13405 NE2 1.00122.60 74.746 -0.110 MOTA 13406 C GLNG 560 105.134 1.00128.84 6 MOTA 13407 GLN G 560 104.984 75.654 0.714 1.00129.24 0 8 105.451 74.957 7 MOTA 13408 Ν GLY G 561 -1.385 1.00190.26 13409 CA **GLY G 561** 105.647 76.296 -1.916 1.00190.02 6 MOTA 13410 GLY G 561 104.978 77.392 -1.1141.00189.66 6 MOTA C 13411 **GLY G 561** 103.755 77.532 -1.1311.00190.29 MOTA 0 8 MOTA 13412 Ν ALA G 562 105.787 78.174 -0.4111.00119.23 7 MOTA 13413 CA ALA G 562 105.265 79.251 0.412 1.00117.96 6 105.760 79.081 1.844 MOTA 13414 CB ALA G 562 1.00182.56 6 13415 ALA G 562 105.647 80.634 -0.110 1.00117.28 MOTA С 6 13416 ALA G 562 106.755 81.112 0.132 1.00117.09 8 ATOM 0 104.730 81.294 7 13417 PRO G 563 -0.8361.00168.71 ATOM Ν 103.438 80.757 -1.294ATOM 13418 CD PRO G 563 1.00 81.97 6 ATOM 13419 PRO G 563 104.956 82.630 -1.396 1.00168.36 6 CA PRO G 563 103.751 82.823 -2.3151.00 82.67 MOTA 13420 CB 6 -1.664 MOTA 13421 PRO G 563 102.696 82.014 1.00 81.98 6 CG MOTA 13422 PRO G 563 105.061 83.727 -0.3401.00167.47 6 С PRO G 563 104.831 84.899 ATOM 13423 -0.6321.00167.60 8 0 GLU G 564 105.412 83.338 7 MOTA 13424 Ν 0.882 1.00 84.57 MOTA 13425 **GLU G 564** 105.551 84.279 1.993 1.00 82.85 б CA ATOM 13426 CB GLU G 564 106.877 85.042 1.902 1.00131.49 6 MOTA 13427 CG GLU G 564 107.064 86.063 3.023 1.00130.94 6 MOTA 13428 CD GLU G 564 108.468 86.634 3.082 1.00131.41 6 13429 GLU G 564 108.935 87.177 2.059 1.00131.51 8 ATOM OE1 G 564 109.102 86.542 8 ATOM 13430 OE2 GLU 4.1551.00131.61 MOTA 13431 C GLU G 564 104.402 85.276 2.069 1.00 81.57 6

ATOM 13466 C ARG G 568 100.771 86.716 6.287 1.00205.52 6 ATOM 13467 O ARG G 568 100.192 86.521 7.356 1.00205.56 8 ATOM 13468 N ASN G 569 100.236 87.401 5.277 1.00172.62 7 ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7	ATOM 13466 C ARG G 568 100.771 86.716 6.287 1.00205.52 6 ATOM 13467 O ARG G 568 100.192 86.521 7.356 1.00205.56 8 ATOM 13468 N ASN G 569 100.236 87.401 5.277 1.00172.62 7 ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6	ATOM 13466 C ARG G 568 100.771 86.716 6.287 1.00205.52 6 ATOM 13467 O ARG G 568 100.192 86.521 7.356 1.00205.56 8 ATOM 13468 N ASN G 569 100.236 87.401 5.277 1.00172.62 7 ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13478 CB GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00155.66 6 ATOM 13480 CD GLU G 570 97.969 83.685 2.732 1.00157.48 6 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00157.48 6 ATOM 13482 OE2 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6	ATOM 13466 C ARG G 568 100.771 86.716 6.287 1.00205.52 6 ATOM 13467 O ARG G 568 100.192 86.521 7.356 1.00205.56 8 ATOM 13468 N ASN G 569 100.236 87.401 5.277 1.00172.62 7 ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13480 CD GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00157.48 8 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00157.84 8	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13433 13434 13435 13436 13437 13438 134439 134441 134443 134445 134445 13445 13445 13445 13455 13455 13455 13455 13455 13456 13466 1	O N CA CB CG2 CG1 C O N CA CB CG CD1 C O N CA CB CCD N CA CCB CCD N CA CCB CCD N CA CCB CCD N CA CCB CCD N CCB CCB CCB CCB CCB CCB CCB CCB CCB C	GLU G 56 ILE	5 10 5 10 5 10 5 10 5 10 6 10 6 10 6 10 6 10 7 10 7 10 7 10 7 10 7 10 7 10 8 10 8 10 8 10 8 10 8 10 8 10 8 10	3.463 4.485 3.437 4.949 4.949 71.9668 7.643 89.7946 89.7946 89.7946 80.838 7.643 80.838 7.643 80.838 7.643 80.838	85.077 86.351 87.359 88.160 89.085 88.969 89.930 86.682 87.189 85.526 84.792 84.363 83.512 85.602 83.587 82.437 82.437 83.895 82.939 82.704 80.692 80.738 83.556 85.101 86.161 87.285 86.302 85.983 86.302 85.983 86.302	2.832 1.288 1.277 -0.035 -0.081 -0.143 1.017 1.449 2.151 0.819 0.450 -0.315 -1.267 1.879 1.498 3.093 4.003 4.646 6.100 5.3651 5.046 5.509 6.049 5.509 6.049 5.172 6.099	1.00 81.23 1.00 64.47 1.00 63.84 1.00111.05 1.00111.53 1.00111.89 1.00 64.00 1.00 63.89 1.00179.33 1.00180.03 1.00 75.12 1.00 75.35 1.00 74.49 1.00 73.42 1.00 73.42 1.00 78.19 1.00 98.19 1.00 98.23 1.00 42.72 1.00 41.40 1.00 40.12 1.00 99.77 1.00 99.67 1.00204.23 1.00205.67 1.00204.35 1.00204.35 1.00203.367	6687666666876666767
ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7	ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6	ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13482 OE2 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6	ATOM 13469 CA ASN G 569 98.904 87.986 5.370 1.00172.19 6 ATOM 13470 CB ASN G 569 98.698 89.053 4.284 1.00144.53 6 ATOM 13471 CG ASN G 569 98.178 88.475 2.983 1.00144.70 6 ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 97.969 83.685 2.732 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00155.66 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 96.663 82.496 1.150 1.00157.84 8 ATOM 13482 OE2 GLU G 570 97.191 83.944 6.497 1.00 57.95 6 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6 ATOM 13484 O GLU G 570 96.143 83.369 6.777 1.00 57.43 8 ATOM 13485 N LYS G 571 98.181 84.150 7.364 1.00 91.40 7 ATOM 13486 CA LYS G 571 98.184 83.700 8.755 1.00 90.81 6	MOTA	13467	0	ARG G 56	8 10 8 10	0.192	86.521	7.356	1.00205.56	6 8
ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7	ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6	ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00158.14 8 ATOM 13483 C GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6	ATOM 13472 OD1 ASN G 569 98.792 87.589 2.394 1.00143.89 8 ATOM 13473 ND2 ASN G 569 97.036 88.978 2.528 1.00144.81 7 ATOM 13474 C ASN G 569 97.859 86.885 5.228 1.00171.70 6 ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13482 OE2 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13484 O GLU G 570 97.191 83.944 6.497 1.00 57.95 6 ATOM 13485 N LYS G 571 98.181 84.150 7.364 1.00 91.40 7 ATOM 13486 CA LYS G 571 98.181 84.150 7.364 1.00 90.81 6	MOTA MOTA	13469 13470	CA CB	ASN G 56 ASN G 56	9 9 9 9	8.904 8.698	87.986 89.053	5.370 4.284	1.00172.19 1.00144.53	6 6
ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7	ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6	ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00158.14 8 ATOM 13482 OE2 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6	ATOM 13475 O ASN G 569 96.660 87.155 5.133 1.00172.20 8 ATOM 13476 N GLU G 570 98.326 85.640 5.207 1.00 59.76 7 ATOM 13477 CA GLU G 570 97.435 84.490 5.100 1.00 58.89 6 ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00158.14 8 ATOM 13482 OE2 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6 ATOM 13484 O GLU G 570 96.143 83.369 6.777 1.00 57.43 8 ATOM 13485 N LYS G 571 98.181 84.150 7.364 1.00 91.40 7 ATOM 13486 CA LYS G 571 98.144 83.700 8.755 1.00 90.81 6	MOTA MOTA	13472 13473	OD1 ND2	ASN G 56 ASN G 56	9 9 9 9	8.792 7.036	87.589 88.978	2.394 2.528	1.00143.89 1.00144.81	8 7
	ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6	ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00158.14 8 ATOM 13482 OE2 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6	ATOM 13478 CB GLU G 570 98.068 83.409 4.220 1.00155.66 6 ATOM 13479 CG GLU G 570 97.969 83.685 2.732 1.00156.86 6 ATOM 13480 CD GLU G 570 96.643 83.254 2.142 1.00157.48 6 ATOM 13481 OE1 GLU G 570 95.591 83.672 2.667 1.00158.14 8 ATOM 13482 OE2 GLU G 570 96.651 82.496 1.150 1.00157.84 8 ATOM 13483 C GLU G 570 97.191 83.944 6.497 1.00 57.95 6 ATOM 13484 O GLU G 570 96.143 83.369 6.777 1.00 57.43 8 ATOM 13485 N LYS G 571 98.181 84.150 7.364 1.00 91.40 7 ATOM 13486 CA LYS G 571 98.144 83.700 8.755 1.00 90.81 6	MOTA MOTA	13475 13476	O N	ASN G 56 GLU G 57	9 9 0 9	6.660 8.326	87.155 85.640	5.133 5.207	1.00172.20 1.00 59.76	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13488 13489 13490 13491 13492 13493 13494 13495 13496 13497 13498 13499 13500	CG CD CE NZ C O N CA CB CG CD NE CC CD	LYS G 571 LYS G 571 LYS G 571 LYS G 571 LYS G 571 LYS G 571 ARG G 572 ARG G 572 ARG G 572 ARG G 572 ARG G 572 ARG G 572 ARG G 572	99.697 101.152 101.320 101.051 97.378 97.029 97.131 96.374 96.379 95.653 95.120 93.890 93.401	82.781 82.416 81.590 82.367 84.684 84.368 85.879 86.893 88.210 88.124 89.481 89.858 91.100	10.582 10.836 12.097 13.334 9.640 10.777 9.110 9.825 9.061 7.723 7.279 7.979 8.048	1.00153.34 1.00154.51 1.00154.99 1.00155.02 1.00 89.48 1.00 88.42 1.00 94.32 1.00 93.38 1.00 83.79 1.00 84.66 1.00 86.66 1.00 88.48	6667687666676
MOTA	13501	NH1	ARG G 572	94.034	92.114	7.463	1.00 89.06	7
MOTA MOTA	13502 13503	NH2 C	ARG G 572 ARG G 572	92.271 94.949	91.332 86.360	8.707 9.853	1.00 89.00 1.00 93.21	7 6
ATOM	13503	Ö	ARG G 572	93.986	87.129	9.879	1.00 93.21	8
ATOM	13505	N	MET G 573	94.826	85.036	9.823	1.00126.59	7
MOTA	13506	CA	MET G 573	93.528	84.381	9.825	1.00125.83	6
ATOM ATOM	13507 13508	CB CG	MET G 573 MET G 573	93.123 93.054	84.034 85.242	8.391 7.469	1.00190.37 1.00192.13	6 6
ATOM	13509	SD	MET G 573	92.546	84.815	5.797	1.00193.34	16
MOTA	13510	CE	MET G 573	94.118	84.474	5.040	1.00193.04	6
MOTA MOTA	13511 13512	C	MET G 573 MET G 573	93.488 92.455	83.128 82.818	10.695 11.276	1.00124.08 1.00123.42	6 8
ATOM	13512	N	LEU G 574	94.599	82.402	10.787	1.00123.42	7
ATOM	13514	CA	LEU G 574	94.617	81.199	11.616	1.00 95.67	6
MOTA	13515	СВ	LEU G 574	96.014	80.610	11.747	1.00 46.39	6
ATOM	13516	CG CD1	LEU G 574	95.974	79.591	12.883	1.00 44.93	6
ATOM ATOM	13517 13518	CD1 CD2		94.919 97.321	78.560 78.931	12.538 13.096	1.00 44.33 1.00 45.55	6 6
ATOM	13519	C	LEU G 574	94.166	81.567	13.002	1.00 94.64	6
MOTA	13520	0	LEU G 574	93.137	81.104	13.480	1.00 94.77	8
ATOM	13521	N	GLN G 575	94.984	82.382	13.654	1.00113.35	7
MOTA MOTA	13522 13523	CA CB	GLN G 575 GLN G 575	94.683 95.720	82.846 83.872	14.991 15.441	1.00112.36 1.00 73.05	6 6
ATOM	13524	CG	GLN G 575	95.247	84.677	16.625	1.00 73.05	6
MOTA	13525	CD	GLN G 575	96.168	85.805	16.985	1.00 72.65	6
ATOM	13526	OE1	GLN G 575	97.267	85.581	17.485	1.00 74.21	8
${f MOTA}$	13527 13528	NE2 C	GLN G 575 GLN G 575	95.728 93.304	87.034 83.495	16.729 14.987	1.00 71.99 1.00111.62	7 6
ATOM	13529	0	GLN G 575	92.567	83.415	15.968	1.00111.02	8
ATOM	13530	Ň	GLU G 576	92.969	84.138	13.871	1.00 72.08	7
ATOM	13531	CA	GLU G 576	91.690	84.813	13.715	1.00 70.28	6
ATOM	13532	CB	GLU G 576	91.587	85.392	12.309	1.00 94.12	6
ATOM	13533 13534	CG CD	GLU G 576 GLU G 576	90.913 91.881	86.732 87.823	12.248 11.883	1.00 94.40 1.00 94.32	6 6
ATOM	13535	OE1		92.966	87.871	12.500	1.00 94.33	8
ATOM	13536	OE2	GLU G 576	91.557	88.631	10.986	1.00 95.06	8
ATOM	13537	C	GLU G 576	90.545	83.828	13.950	1.00 69.83	6
ATOM ATOM	13538 13539	N O	GLU G 576 ALA G 577	89.420 90.846	84.225 82.541	14.253 13.793	1.00 69.87 1.00 73.59	8 7
ATOM	13540	CA	ALA G 577	89.867	81.476	13.793	1.00 73.33	6
ATOM	13541	СВ	ALA G 577	90.053	80.378	12.956	1.00 96.82	6
ATOM	13542	C	ALA G 577	90.059	80.916	15.388	1.00 72.09	6
ATOM	13543	0	ALA G 577	89.737	79.760	15.663	1.00 72.23	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13544 13545 13546 13546 13547 13548 13555 13555 13555 13555 13555 13555 13555 13556 13556 13556 13556 13556 13557	CG2 C O N CA CB CG OD1 CA CB C O N CA CB CG1	VAL G 581 VAL G 581 VAL G 582 ILE G 583 ASP G 584 ASN G 585 GLY G 585	86.935 86.424 85.423 86.478 87.451 87.210 87.266 86.326 85.299 87.362 87.338 88.734 91.169 86.383 85.562 85.603 86.479 85.603 86.781 86.781 86.781 86.234 87.826 85.466 86.054 84.455 83.503 83.340 83.192 83.350 83.883 82.706 84.724 84.278	86.397 87.457 85.793 86.310 85.395 85.801 86.982 84.819 87.720 87.920 88.696 90.074	21.990 21.771 21.091 19.743 18.987 17.541 17.229 16.646 19.741 19.452 20.058 20.082	1.00133.07 1.00133.98 1.00 37.65 1.00 37.79 1.00 75.68 1.00 76.20 1.00 75.74 1.00 76.61 1.00 38.41 1.00 39.07 1.00115.74 1.00118.24	76666687666886876668766668766668766687666876687687
ATOM ATOM ATOM ATOM	13595 13596 13597 13598	CA C O	GLY G 585	84.724 84.278 85.223 85.832				
MOTA	13599	N	WING G DOO	03.330	JU./14	10.019		•

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13600 13601 13602 13603 13604 13605 13606 13607 13608 13610 13611 13612 13613 13614 13615 13616 13617 13618 13619 13620 13621 13622	CA CB CG CD NE CZ NH1 NH2 C O N CA CB CC NH1 NH2 C O N CA CB CZ NH1 NH2 C O N CA	ARG G 586 ARG G 587 ARG G 588	86.22 87.63 88.60 89.99 90.89 92.17 92.72 85.63 84.99 85.21 86.19 87.00 87.00 87.00 88.58 87.53 88.58 83.40 83.41	99.906 91.620 92.90.977 97.91.561 77.91.220 15.90.294 24.91.800 12.91.529 97.90.555 88.92.648 71.92.843 92.843 92.109 90.585 70.89.850 87.884 88.399 87.500 87.884 86.209 97.92.439 90.239 91.204	16.099 16.115 15.126 14.984 15.771 14.051 15.747 15.325 15.050 13.701 12.676 12.626 13.451 13.267 13.932 14.845 13.684 13.508 13.032 13.878	1.00120.54 1.00106.36 1.00107.18 1.00107.01 1.00107.15 1.00106.98 1.00106.67 1.00120.97 1.00121.83 1.00104.27 1.00114.96 1.00115.33 1.00115.65 1.00116.31 1.00116.40 1.00116.24 1.00104.86 1.00105.52 1.00147.52 1.00146.07	66667677687666676776876
MOTA MOTA	13623 13624	C O	GLY G 588 GLY G 588	82.14 82.03			1.00144.98 1.00145.06	6 8
MOTA	13625	N	SER G 589	82.2			1.00 77.21	7
MOTA	13626	CA	SER G 589	82.33			1.00 76.00	6
MOTA	13627	CB	SER G 589	83.63			1.00 56.13 1.00 55.41	6 8
MOTA MOTA	13628 13629	OG C	SER G 589 SER G 589	83.75 81.16			1.00 55.41	6
ATOM	13630	0	SER G 589	81.1			1.00 75.43	8
MOTA	13631	N	PRO G 590	80.14			1.00 65.35	7
ATOM	13632	CD	PRO G 590	79.92			1.00140.99	6
ATOM	13633	CA	PRO G 590	78.94			1.00 65.07	6
MOTA	13634	СВ	PRO G 590	77.86			1.00140.82	6
MOTA	13635	CG	PRO G 590	78.5			1.00140.67	6
ATOM	13636	C	PRO G 590	79.05			1.00 64.88	6 8
ATOM	13637 13638	N O	PRO G 590 VAL G 591	79.96 78.09			1.00 64.41 1.00120.37	7
ATOM	13639	CA	VAL G 591	78.04			1.00120.69	6
ATOM	13640	CB	VAL G 591	77.00		9.424	1.00 83.72	6
ATOM	13641		VAL G 591	75.59			1.00 83.05	6
ATOM	13642	CG2	VAL G 591	77.1			1.00 83.74	6
MOTA	13643	С	VAL G 591	77.63			1.00120.85	6
ATOM	13644	0	VAL G 591	77.20			1.00120.97	8
MOTA	13645	N	THR G 592 THR G 592	77.7' 77.4			1.00117.86 1.00117.55	7 6
MOTA MOTA	13646 13647	CA CB	THR G 592	75.9			1.00117.33	6
ATOM	13648	OG1	THR G 592	75.1			1.00125.06	8
MOTA	13649	CG2	THR G 592	75.6			1.00123.79	6
MOTA	13650	C	THR G 592	77.7	40 85.128	5.222	1.00117.06	6
MOTA	13651	0	THR G 592	76.83			1.00117.05	8
ATOM	13652	N	ASN G 593	79.03			1.00166.11	7
ATOM	13653	CA	ASN G 593 ASN G 593	79.4' 80.9			1.00166.57 1.00110.57	6 6
MOTA MOTA	13654 13655	CB CG	ASN G 593 ASN G 593	80.9			1.00110.37	6
VION	13033		71011 G 333	00.9.	J. 00.J40	,.101	x.00xx0.00	J

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13666 13667 13668 13669 13670 13671 13672 13673 13674 13675 13676 13677 13680 13681 13683 13684 13685 13688 13688 13689 13690 13691 13692 13693 13694 13695 13697 13698 13699 13700 13701 13702 13703 13704	ND2 O N C C C C O N C C C C C C C C C C C C	ASN G 593 PRO G 594 PRO G 594 PRO G 594 PRO G 594 PRO G 595 GLY G 595 GLU G	81.484 79.461 79.396 79.511 79.851 79.604 80.494 79.994 78.246 78.135 77.226 75.892 75.892 75.892 75.893 77.336	93.080 92.787 90.666 89.944 90.405 87.986 86.671 85.566 85.364 84.908 89.856 88.120 87.210 87.210 87.919 87.035 87.541 86.6613 87.379 87.028 86.660 87.546 88.420 87.546 88.660	7.806 7.676 3.603 2.698 3.352 2.011 4.348 3.658 2.253 4.731 5.732 3.926 4.178 5.639 6.449 5.370 6.560 7.897 7.185 9.017 9.815 9.017 9.815 9.017 9.445 8.315 7.946 11.269 11.721 11.995 13.399 14.133 14.628 14.629 15.139 14.381 14.628 14.682 15.687 16.509 15.028 16.378	1.00110.65 1.00111.38 1.00166.40 1.00167.00 0.00 83.88 0.00 83.46 0.00 83.02 0.00 83.02 0.00 83.14 0.00 82.44 0.00 82.37 0.00 81.94 0.00 81.22 0.00 80.87 0.00 80.75 0.00 80.75 0.00 80.75 0.00 79.99 0.00 80.14 0.00 79.81 0.00 79.81 0.00 79.83 1.00122.38 1.00122.38 1.00121.70 1.00 92.65 1.00 92.04 1.00 91.30 1.00 90.79 1.00121.10 1.00157.25 1.00155.91 1.00157.25 1.00159.10 1.00161.53 1.00161.53 1.00161.53 1.00161.53 1.00161.53 1.00161.53 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59 1.00161.59	876876666876687668687666688687666676776876666876
ATOM	13701 13702	CG	PRO G 599	9 76.625 9 76.793	88.060 85.259	16.509 15.211	1.00 47.94 1.00 58.22	6 6
							1.00 48.10	7
ATOM	13705	CA	LEU G 60	0 77.619	83.314		1.00 47.99 1.00 54.05	6 6
ATOM ATOM		CB CG	LEU G 600 LEU G 600			14.226	1.00 54.55	6
MOTA	13708	CD1	LEU G 60	0 79.875	81.967	13.581	1.00 55.60	6
MOTA MOTA		CD2 C	LEU G 600			13.452 17.875	1.00 53.38 1.00 48.55	6 6
ATOM		0	LEU G 60			18.490	1.00 48.30	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13712 13713 13714 13715 13716 13717 13718 13720 13721 13722 13723 13725 13726 13727 13728 13730 13731 13732 13733 13733 13735 13737 13738 13740 13741 13742 13743 13744 13745 13747 13748 13749 13751 13752 13753 13753 13753 13753 13753 13753 13755 13756 137760 13761 13762 13763	N CA CB CG CD NE CZ NH12 CONCA CB CG CD NCA CB CG CD CONCA CB CG CD CC CD CONCA CB CG CC CD CONCA CB CG CD CC CD CONCA CB CG CD CD CONCA CB CG CD CC CD CONCA CB CG CD	LEU G G G G G G G G G G G G G G G G G G G	601 601 601 601 601 601 601 601 601 601	77.509 77.704 76.612 75.179 75.046 73.657 73.293 74.219 72.013 79.066 81.406 82.416 81.556 80.597 82.762 83.054 84.533 84.814 84.313 86.297 82.408 82.750 82.440 83.017 84.421 82.790 80.528 80.941 80.528 77.968 76.464 75.879 75.864 75.879 77.341 79.026 79.121 79.026 79.121 79.026 79.121 79.228 80.000 79.189 79.565 82.072 82.801	82.100 81.923 81.027 81.541 83.009 83.454 84.735 85.686 85.072 81.284 80.076 82.103 81.588 82.736 83.859 80.842 80.732 80.336 79.604 77.704 77.098 77.407 80.397 79.820 81.719 82.563 83.864 83.864 84.811 82.673 83.864 83.968 83.864 83.864 83.864 83.864 83.864 83.864 83.864 83.864 83.968 83.864 83	18.466 19.893 20.488 20.320 20.711 20.825 20.853 20.767 20.980 20.083 19.954 20.377 20.484 21.230 21.890 22.651 22.152 23.380 23.436 23.484 22.211 23.628 24.627 25.658 24.534 25.495 25.245 26.738 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057 24.936 25.949 27.057	1.00 74.02 1.00 74.67 1.00 83.57 1.00 85.04 1.00 85.98 1.00 87.40 1.00 88.26 1.00 88.70 1.00 74.96 1.00 75.24 1.00 52.21 1.00 53.74 1.00113.36 1.00113.37 1.00 54.78 1.00 55.37 1.00 66.38 1.00 67.79 1.00 66.38 1.00 67.79 1.00 71.38 1.00 72.13 1.00132.27 1.00142.86 1.00133.04 1.00132.56	7666676776876686876666687668668766886687668868766687666
ATOM	13762	СВ	LEU G LEU G LEU G	607 607 607	82.072	80.668	29.315	1.00 64.66	6 6 6
ATOM ATOM	13766 13767	C 0	LEU G LEU G	607	80.312 81.271	82.382 83.128	29.619 29.801	1.00 94.48 1.00 96.06	6 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13824 13825 13826 13827 13828 13838	C O N CA CB CG CD1 CD2 C O N CA C CD C C O N CA C C C C C C C C C C C C C C C C C	ARG G G G G G G G G G G G G G G G G G G	515 515 515 515 515 515 515 516 516 517 517 517 518 518 518 518 518 519 519 519 519 519 519 519 519 519 519	73.980 75.088 74.481 75.088 73.843 75.983 73.228 72.245 71.017 71.571 71.571 71.125 71.125 71.125 71.125 71.125 71.126	83.706 84.759 86.904 88.058 88.746 81.495 80.482 77.575.75 77.806 77.806 77.806 77.467 77.467 77.467 77.467 77.506 77.401 77.	34.944 34.920 33.762 33.193 33.315 32.486 35.773 34.838 33.4016 33.6016 33.601	1.00 28.33 1.00107.94 1.00112.04 1.00113.20 1.00113.21 1.00 78.17 1.00 77.93 1.00 46.54 1.00 46.21 1.00 45.82	6667677687666876876668768766666687666687666666
ATOM ATOM	13871 13872	CA	LYS G	621 621	65.364 66.348	75.871 75.179	35.830 36.783	1.00 77.93 1.00 46.54	6
MOT'A MOTA	13874	CE	LYS G		69.924	73.822	36.264	1.00 43.82	6
ATOM	13876	NZ	LYS G		70.758	72.809	36.949	1.00 41.06	7
ATOM	13877	C	LYS G		64.052	75.082	35.791	1.00 78.01	6
ATOM	13878	Ö	LYS G		63.314	75.074	36.771	1.00 80.07	8
ATOM	13879	N	ARG G		63.768	74.432	34.660	1.00 26.65	7

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	13936 13937 13938 13939 13941 13944 13944 13944 13944 13945 13995 13995 13995 13995 13996 13996 13996 13996 13996 13996 13996 13996 13997	C O N CA CB CG2 CO N CA CB CG1 CO N CA CB CG2 CC	SER G 65 SER G 65 SER G 65 SER G 66 SER G 66 VAL G 66 VAL G 66 VAL G 66 VAL G 66 ILE G 66 VAL	28 29 29 29 29 30 30 30 30 31 31 31 31 31 31 32 32 32 32 33 33 33 33 33 33 33 33 33	48.424 48.423 46.726 44.649 46.162 44.284 41.986 42.287 44.2881 41.987 44.2881 42.287 44.399 43.931 45.301 45.301 46.317 46.317 47.301 47.3	74.557 73.582 75.579 75.633 74.344 76.764 77.162 78.218 78.447 79.365 77.582 78.646 78.752 76.582 78.646 78.79.752 78.646 77.898 77.898 77.898 77.898 77.898 77.898 77.898 77.898 77.898 77.878 77.898 77.898 77.898 77.898 77.898 77.898 77.898 77.898 77.898	38.531 38.531 38.555 38.7553 39.1625 39.2132 39.39.391 39.391 39.391 39.391 39.391 40.4123 41.714 42.380 44.325 44.325 44.325 44.325 44.325 44.325 44.325 45.5969 46.410 47.464 47.464 47.464 49.696 49.696 49.696 49.696 49.696 50.374 49.696 50.376	1.00 26.02 1.00 25.58 1.00 30.56 1.00 28.99 1.00 43.18 1.00 45.83 1.00 26.79 1.00 14.17 1.00 14.24 1.00 13.87 1.00 13.87 1.00 15.94 1.00 15.94 1.00 35.03 1.00 37.30 1.00 51.58 1.00 52.75 1.00 53.75 1.00 53.75 1.00 35.48 1.00 37.41 1.00 13.87 1.00 14.56 1.00 15.01 1.00 27.49 1.00 27.49 1.00 34.42 1.00 35.61 1.00 35.61 1.00 35.61	6 6
MOTA ATOM ATOM ATOM	13975 13976 13977 13978	C O N CD	GLY G 6 GLY G 6 PRO G 6 PRO G 6	34 34 35 35	40.249 41.319 39.155 37.874	74.959 74.568 75.118 75.757	53.037 53.506 53.798 53.444	1.00 27.61 1.00 27.49 1.00 34.42 1.00 14.50	6 8 7 6
ATOM ATOM ATOM	13980 13981 13982	CB CG C	PRO G 6 PRO G 6 PRO G 6	35 35 35	37.843 37.421 39.464	75.213 76.294 73.274	55.733 54.753 55.362	1.00 16.25 1.00 15.80 1.00 39.07	6 6 6
ATOM ATOM ATOM ATOM ATOM ATOM	13983 13984 13985 13986 13987 13988	O N CA CB CG CD	PRO G 6 GLN G 6	36 36 36 36	38.534 40.727 41.177 42.413 42.223 43.479	72.488 72.883 71.489 71.277 71.510 72.062	55.602 55.169 55.246 54.381 52.915 52.285	1.00 38.33 1.00 59.89 1.00 60.82 1.00 49.54 1.00 51.17 1.00 52.97	7 6 6 6
ATOM ATOM ATOM	13989 13990 13991	OE1 NE2 C	GLN G 6	36 36	43.709 44.314 41.559	73.264 71.186 71.168	52.309 51.741 56.676	1.00 53.14 1.00 54.60 1.00 61.13	8 7

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ATOM ATOM ATOM	13992 13993 13994	O N CA	GLN G ALA G ALA G		40.742 42.811 43.302	71.279 70.761 70.440	57.584 56.869 58.203	1.00 61.46 1.00 53.10 1.00 54.21	8 7 6
MOTA	13995	CB		637	44.026	69.113	58.213	1.00 71.85	6
MOTA	13996	C	ALA G		44.240	71.539	58.624	1.00 53.34	6
ATOM	13997	0	ALA G		45.093	71.333	59.483	1.00 52.33	8
MOTA	13998	N	ALA G		44.054	72.702	58.000	1.00 49.90	7
MOTA	13999	CA			44.839	73.899	58.266 59.527	1.00 48.08 1.00 33.63	6 6
MOTA	14000	CB	ALA G	638 638	44.380 46.306	74.565 73.608	58.367	1.00 33.63	6
ATOM ATOM	14001 14002	C 0	ALA G	638	46.733	73.000	59.113	1.00 47.42	8
ATOM	14002	N	LEU G	639	47.092	74.368	57.620	1.00 56.66	7
ATOM	14004	CA			48.519	74.155	57.615	1.00 54.41	6
ATOM	14005	CB	LEU G	639	49.089	74.390	59.011	1.00 13.87	6
ATOM	14006	CG	LEU G	639	48.386	75.393	59.912	1.00 13.87	6
ATOM	14007	CD1	LEU G		49.148	75.508	61.198	1.00 13.87	6
ATOM	14008	CD2			48.315	76.723	59.235	1.00 13.87	6 6
ATOM	14009	C	LEU G		48.540	72.674	57.314	1.00 55.55 1.00 55.99	8
MOTA	14010	O	LEU G	640	47.502 49.706	72.089 72.060	56.986 57.393	1.00 33.99	7
ATOM ATOM	$14011 \\ 14012$	N CA	HIS G		49.743	70.634	57.198	1.00 47.70	6
ATOM	14012	CB		640	48.840	70.027	58.257	1.00 53.49	6
MOTA	14014	CG	HIS G		49.482	68.950	59.045	1.00 57.32	6
MOTA	14015	CD2	HIS G	640	48.960	67.866	59.659	1.00 58.54	6
MOTA	14016		HIS G		50.829	68.946	59.325	1.00 60.71	7
MOTA	14017		HIS G		51.111	67.902	60.081	1.00 62.34	6 7
ATOM	14018	NE2			49.993 49.311	67.231 70.108	60.300 55.828	1.00 61.91 1.00 47.48	6
ATOM	14019 14020	C 0	HIS G	640 640	50.120	69.599	55.058	1.00 47.90	8
ATOM ATOM	14020	N	GLN G		48.023	70.244	55.535	1.00 31.89	7
ATOM	14022	CA	GLN G		47.448	69.696	54.324	1.00 30.23	6
ATOM	14023	СВ	GLN G		46.045	69.189	54.637	1.00 28.09	6
MOTA	14024	CG		641	46.019	68.435	55.958	1.00 26.62	6
MOTA	14025	CD	GLN G		45.055	67.280	55.975	1.00 25.29 1.00 23.03	6 8
ATOM	14026	OE1	GLN G		43.835 45.599	67.465 66.066	55.888 56.087	1.00 23.03 1.00 24.47	7
ATOM	14027 14028	NE2 C	GLN G		47.429	70.535	53.078	1.00 30.20	6
ATOM ATOM	14028	0	GLN G		47.674	71.738	53.113	1.00 30.30	8
ATOM	14030	N	CYS G		47.105	69.869	51.972	1.00 59.16	7
ATOM	14031	CA		642	47.092	70.486	50.658	1.00 59.05	6
ATOM	14032	CB	CYS G		48.428	70.189	49.991	1.00 39.80	6
ATOM	14033	SG	CYS G		48.944	71.434	48.854	1.00 42.08	16
ATOM	14034	C	CYS G		45.960	69.971 68.802	49.770 49.855	1.00 58.19 1.00 59.53	6 8
MOTA	14035 14036	O N	CYS G GLY G		45.579 45.433	70.847	48.917	1.00 30.01	7
MOTA MOTA	14037	CA	GLY G		44.366	70.460	48.005	1.00 27.94	6
MOTA	14038	C	GLY G		44.874	69.424	47.023	1.00 27.01	6
ATOM	14039	Ō	GLY G		44.934	68.245	47.357	1.00 28.10	8
ATOM	14040	N	LEU G		45.235	69.847	45.815	1.00 36.37	7
MOTA	14041	CA	LEU G		45.778	68.933	44.802	1.00 36.23	6
ATOM	14042	CB	LEU G		46.899	68.069	45.398 44.937	1.00 16.15 1.00 13.87	6 6
ATOM ATOM	$14043 \\ 14044$	CG CD1	LEU G		48.324 49.308	68.376 67.599	44.937	1.00 13.87	6
ATOM	14044	CD1			48.482	68.043	43.460	1.00 13.87	6
MOTA	14046	C	LEU G		44.791	68.005	44.114	1.00 37.17	6
MOTA	14047	Ō	LEU G		44.489	66.922	44.619	1.00 38.29	8

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	14048 14049 14050 14051 14052 14053 14055 14055 14056 14057 14060 14061 14063 14064 14066 14066 14066 14067 14068 14069 14070 14071 14072	N CD CA CB CG CD CE NZ C ON CA CCB CCD NE CCD NE CCD NH1 NH2	PRO G PRO G PRO G PRO G LYS G LYS G LYS G LYS G LYS G LYS G LYS G ARG G ARG G ARG G ARG G ARG G ARG G ARG G ARG G ARG G	645 645 645 645 646 646 646 646 646 647 647 647 647 647	44.302 44.726 43.345 43.260 43.615 43.941 44.967 43.329 43.910 42.888 41.577 40.559 39.182 38.152 44.448 45.506 43.739 44.180 43.302 43.458 43.269 44.091 43.615 44.722	68.403 69.591 67.599 68.345 69.759 66.218 66.093 65.178 63.842 62.755 62.860 61.945 62.205 61.480 63.624 63.021 64.145 63.983 64.797 64.345 62.228 60.918 60.456	42.930 42.172 42.161 40.834 41.198 41.980 41.333 42.533 42.741 42.009 42.637 42.066 42.848 40.973 40.792 39.976 38.597 37.648 36.210 36.126 34.975 34.801 35.704 33.729	1.00 27.77 1.00 22.15 1.00 27.56 1.00 22.30 1.00 22.67 1.00 28.41 1.00 30.15 1.00 30.47 1.00 24.99 1.00 23.28 1.00 23.51 1.00 24.35 1.00 26.45 1.00 31.88 1.00 32.03 1.00 25.35 1.00 26.83 1.00127.24 1.00133.86 1.00144.06 1.00145.06 1.00145.06 1.00145.29	766668766666768766667677
ATOM	14061	NZ	LYS G	646	38.152	61.480	42.848	1.00 26.45	7
									8
								1.00 25.35	7
							38.597	1.00 26.83	6
								1.00127.24	6
								1.00133.86	6
						62.826	36.126	1.00139.18	6
							34.975	1.00144.06	7
						60.918	34.801	1.00145.06	
							35.704	1.00144.69	7
						60.456	33.729	1.00145.29	7
ATOM	14073	C	ARG G		45.640	64.388	38.438	1.00 25.31	6
MOTA	14074	Ö	ARG G		46.417	63.690	37.793	1.00 25.84	8
ATOM	14075	N	MET G	648	46.010	65.512	39.037	1.00 19.05	7
ATOM	14076	CA	MET G	648	47.380	65.981	38.978	1.00 18.02	6
MOTA	14077	CB	MET G	648	47.435	67.497	39.054	1.00 32.50	6
ATOM	14078	CG	MET G	648	47.380	68.028	40.455	1.00 34.91	6
MOTA	14079	SD		648	47.480	69.798	40.456	1.00 36.66	16
ATOM	14080	CE		648	49.209	70.022	40.793	1.00 37.49	6
MOTA	14081	С	MET G		48.217	65.396	40.120	1.00 17.12	6
MOTA	14082	0		648	49.436	65.534	40.139	1.00 15.88	8
MOTA	14083	N	ALA G		47.581	64.761	41.093	1.00 34.65	7
MOTA	14084	CA	ALA G		48.363	64.183	42.173	1.00 35.55	6
MOTA	14085	CB	ALA G		47.471	63.766	43.335	1.00 20.55	6
ATOM	14086	С	ALA G		48.974	62.974	41.520	1.00 36.05	6
ATOM	14087	0	ALA G		50.156	62.685	41.696	1.00 36.72	8
ATOM	14088	N	LEU G		48.145	62.297	40.729	1.00 43.51	7 6
MOTA	14089	CA	LEU G		48.526	61.079	40.013	1.00 44.21 1.00 54.68	6 6
ATOM	14090	CB	LEU G		47.339	60.567	39.185	1.00 54.88	6
ATOM	14091	CG	LEU G		47.436	59.214	38.477	1.00 54.88	
ATOM	14092		LEU G		46.947	58.101	39.388	1.00 55.01	6 6
ATOM	14093	CD2	LEU G		46.585	59.268	37.228 39.096	1.00 35.01	6
ATOM	14094	C	LEU G		49.715 50.597	61.331 60.482	38.948	1.00 44.70	8
MOTA	14095	O N	LEU G			62.500	38.470	1.00 44.72	7
MOTA	14096	N	GLU G		49.728 50.819	62.826	37.584	1.00 46.42	6
MOTA	14097	CA	GLU G		50.819	64.085	36.792	1.00 40.42	6
MOTA	14098 14099	CB CG	GLU G		50.515	63.858	35.301	1.00 65.33	6
MOTA MOTA	14100	CD	GLU G		51.733	62.972	34.901	1.00 67.82	6
ATOM	14101	OE1	GLU G		52.850	63.195	35.415	1.00 70.14	8
ATOM	14101	OE1	GLU G		51.534	62.060	34.069	1.00 67.84	8
ATOM	14102	C	GLU G		52.053	63.039	38.426	1.00 45.52	6
FILOR	7.4T()	C	210 9	UU 1	52.055				-

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	14104 14105 14106 14107 14108 14110 14111 14112 14113 14114 14115 14116 14117 14118 14119 14120 14121 14122 14123 14124 14125 14126 14127 14128 14129 14130 14131 14132	O N CA CB CG CD1 CE2 CZ C O N CA CB CG CD CE1 CE2 CZ C O N CA CB CG CD CC	LEU (PHE (22222222333333333333344444444444444444	5.55.55.55.55.55.55.55.55.55.55.55.55.5	2.995 2.026 3.147 2.664 4.037 1.638 4.055 4.055 3.655 3.499 3.750	62.259 64.091 64.423 65.446 66.925 67.366 67.132 63.234 63.332 62.114 60.952 60.704 61.683 63.056 61.226 63.950 62.117 63.481 59.630 58.705 59.547 58.308 58.574 57.283 57.484 58.463 57.335 56.254	38.366 39.233 40.102 41.168 40.773 40.270 39.688 40.795 41.219 40.905 41.598 42.897 44.833 46.304 46.304 46.304 46.304 46.304 41.263 39.641 38.851 37.345 36.557 35.048 34.565 33.091 39.650	1.00 34 1.00 21 1.00 19 1.00 33 1.00 32 1.00 68 1.00 15 1.00 13 1.00 13	.11 .41 .60 .36 .67 .23 .17 .50 .11 .87 .87 .87 .87 .87 .87 .87 .87 .87 .87	87666668766666666876666768
ATOM ATOM	14135 14136 14137 14138 14139 14140 14141 14142 14143 14144 14145 14146 14147 14148 14149 14150 14151 14152 14153 14154 14155	CD2 CE1 CE2 CZ C O N CA CB	PRO G	655 655 655 655 655 655 655 655 655 655	57 56 56 55 57 57 57 59 55 51 50	5.565 7.804 7.481 6.326 6.027 6.415 6.203 7.114 7.429 7.	56.751 57.640 58.577 56.094 54.911 56.879 56.351 57.466 58.341 59.341 58.127 60.118 58.899 59.899 54.385 55.757 54.883 55.534 64.620	39.101 39.090 38.005 40.440 40.497 41.511 42.851 43.853 44.084 43.179 45.172 43.352 45.356 44.441 42.822 43.494 42.054 41.934 41.131 41.028	1.00 14 1.00 20 1.00 15 1.00 14 1.00 21 1.00 24 1.00 56 1.00 57 1.00 58 1.00 57 1.00 58 1.00 59 1.00 59 1.00 25 1.00 25 1.00 55 1.00 57 1.00 35 1.00 34	.20 .69 .35 .39 .23 .36 .81 .86 .82 .84 .89 .84 .89 .84 .89 .88 .88 .88 .88 .88 .88 .88 .88 .88	666687666666666876666
ATOM ATOM ATOM	14156 14157 14158 14159	CD2 C O N	LEU G LEU G LEU G LEU G	657 657 657	49 53 53	.888 .460 .354 .951	54.480 55.183 53.634 52.782 53.530	42.397 40.053 41.217 41.860 39.901	1.00 33. 1.00 34. 1.00 59. 1.00 60. 1.00 45.	01 67 86	6 6 8 7

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ATOM	14160	CA	LEU G		53.607	52.360	39.138	1.00 47.25	6
ATOM	14161	СВ		658	54.691	52.748	38.139	1.00 42.38	6
ATOM	14162	CG	LEU G	658	54.531	54.006	37.307	1.00 40.85	6
ATOM	14163	CD1	LEU G	658	55.761	54.173	36.405	1.00 40.90	6
MOTA	14164	CD2	LEU G	658	53.245	53.911	36.507	1.00 39.81	6
ATOM	14165	С	LEU G		54.191	51.290	40.061	1.00 49.47	6
ATOM	14166	Ö		658	53.493	50.363			
ATOM	14167	N		659			40.462	1.00 48.46	8
ATOM	14168	CA			55.475	51.445	40.396	1.00 33.92	7
ATOM				659	56.189	50.524	41.266	1.00 37.81	6
	14169	CB		659	57.411	51.218	41.867	1.00112.52	6
ATOM	14170	CG		659	58.279	50.319	42.729	1.00117.06	6
MOTA	14171	CD		659	57.654	50.076	44.093	1.00120.47	6
MOTA	14172	CE		659	58.485	49.122	44.934	1.00122.21	6
ATOM	14173	NZ		659	57.930	48.986	46.311	1.00123.50	7
ATOM	14174	С	LYS G	659	55.259	50.032	42.369	1.00 39.05	6
ATOM	14175	0	LYS G	659	55.185	48.829	42.647	1.00 39.17	8
ATOM	14176	N	LYS G	660	54.553	50.964	43.002	1.00 78.10	7
ATOM	14177	CA	LYS G	660	53.610	50.619	44.056	1.00 81.03	6
ATOM	14178	CB		660	52.731	51.817	44.409	1.00102.85	6
MOTA	14179	CG		660	51.944	51.644	45.693	1.00102.03	6
MOTA	14180	CD		660	52.879	51.492	46.885	1.00104.45	6
MOTA	14181	CE	LYS G		52.095	51.359	48.175	1.00105.45	6
ATOM	14182	NZ		660	52.962	51.015	49.332	1.00108.90	7
ATOM	14183	C		660	52.750	49.508	43.496	1.00108.02	
ATOM	14184	Ö		660	52.751				6
ATOM	14185	N		661	52.731	48.398	44.018	1.00 83.58	8
ATOM	14186	CA		661		49.815	42.418	1.00 73.78	7
MOTA	14187	CB			51.177	48.844	41.744	1.00 74.70	6
ATOM				661	50.676	49.408	40.422	1.00 47.67	6
	14188	CG		661	49.745	50.573	40.583	1.00 43.82	6
ATOM	14189	SD	MET G		49.083	51.056	39.019	1.00 37.36	16
ATOM	14190	CE		661	50.450	51.991	38.440	1.00 37.75	6
MOTA	14191	C		661	51.903	47.535	41.474	1.00 77.32	6
MOTA	14192	0		661	51.379	46.462	41.767	1.00 77.89	8
MOTA	14193	N		662	53.098	47.626	40.895	1.00 41.30	7
MOTA	14194	CA	GLU G 6		53.889	46.437	40.615	1.00 43.36	6
ATOM	14195	CB	GLU G 6		55.353	46.787	40.326	1.00 97.38	6
MOTA	14196	CG		662	56.286	45.571	40.448	1.00100.79	6
ATOM	14197	$^{\mathrm{CD}}$	GLU G 6	662	57.748	45.930	40.708	1.00102.66	6
ATOM	14198	OE1		562	58.013	46.844	41.524	1.00104.78	8
ATOM	14199	OE2	GLU G 6	562	58.637	45.278	40.111	1.00102.38	8
MOTA	14200	С	GLU G 6	562	53.848	45.561	41.850	1.00 44.11	6
MOTA	14201	0	GLU G 6	562	53.162	44.541	41.883	1.00 44.20	8
MOTA	14202	N	GLU G 6	563	54.575	45.981	42.876	1.00 79.97	7
MOTA	14203	CA	GLU G 6	563	54.643	45.219	44.110	1.00 82.77	6
ATOM	14204	CB	GLU G 6		55.610	45.896	45.082	1.00185.83	6
ATOM	14205	CG	GLU G 6		56.181	44.959	46.130	1.00188.96	6
ATOM	14206	CD	GLU G 6		57.317	45.585	46.905	1.00190.76	6
ATOM	14207	OE1	GLU G 6		57.071	46.569	47.634	1.00192.26	8
MOTA	14208	OE2	GLU G 6		58.459	45.096	46.779	1.00192.20	
ATOM	14209	C	GLU G 6		53.267	45.063	44.747	1.00191.84	8
ATOM	14210	Õ	GLU G 6		52.996	44.079	45.445	1.00 83.00	6
ATOM	14211	N	LYS G 6		52.391	46.027	43.445	1.00 82.12	8
ATOM	14212	CA	LYS G 6		51.050	45.986			7
ATOM	14213	CB	LYS G 6		50.298	47.278	45.051	1.00 73.05	6
ATOM	14214	CG	LYS G 6		49.153		44.742	1.00 76.35	6
ATOM	14215	CD	LYS G 6		49.153	47.550	45.692	1.00 77.34	6
		رين	מ מידים	, U =	47.000	47.664	47.107	1.00 78.12	6

λп	'OM	14216	CE	LYS G	664	48.552	47.948	48.079	1.00 79.63	6
	'OM	14217	NZ	LYS G		49.094	47.940	49.459	1.00 79.63	
	MO'	14217	C	LYS G		50.303	44.810			7
								44.454	1.00 73.20	6
	MO' MO'	14219	O N	LYS G		49.115	44.624	44.708	1.00 73.35	8
		14220	N	ALA G		51.019	44.020	43.660	1.00121.02	7
	MO	14221	CA	ALA G		50.463	42.848	42.996	1.00121.79	6
	'OM	14222	CB	ALA G		49.677	41.990	43.996	1.00143.90	6
	MO	14223	C	ALA G		49.573	43.250	41.820	1.00121.53	6
	MO'	14224	0	ALA G		49.737	42.733	40.711	1.00121.51	8
	MO	14225	N	PHE G		48.643	44.177	42.057	1.00 37.57	7
	MO'	14226	CA		666	47.746	44.619	41.000	1.00 37.28	6
	MO'	14227	CB		666	46.869	45.780	41.434	1.00123.03	6
	MO	14228	CG		666	46.038	46.307	40.321	1.00125.47	6
	MO'	14229	CD1		666	45.194	45.450	39.619	1.00126.92	6
	MO'	14230	CD2		666	46.150	47.623	39.910	1.00126.53	6
	MO'	14231	CE1	PHE G		44.476	45.893	38.518	1.00127.79	6
	MO'	14232	CE2	PHE G		45.435	48.079	38.806	1.00127.42	6
	MO'	14233	CZ		666	44.595	47.209	38.108	1.00127.68	6
	MO'	14234	C		666	48.520	45.049	39.780	1.00 36.21	6
	MO'	14235	0	PHE G		49.528	45.743	39.894	1.00 35.65	8
	MO'	14236	N	ALA G		48.024	44.652	38.615	1.00 71.70	7
	MO'	14237	CA	ALA G		48.677	44.951	37.350	1.00 72.52	6
	MO	14238	СВ	ALA G		49.100	46.416	37.295	1.00 56.64	6
	MO'	14239	C	ALA G		49.896	44.031	37.227	1.00 72.96	6
	MO'	14240	0	ALA G		50.666	43.858	38.179	1.00 73.12	8
	MO'	14241 14242	N	PRO G		50.076	43.419	36.049	1.00 53.70	7
	MO'	14242	CD CA	PRO G		49.233	43.557	34.851	1.00164.07	6
					668	51.196	42.509	35.795	1.00 53.37	6
	MO'	$14244 \\ 14245$	CB CG	PRO G	668	50.948 50.189	42.051 43.186	34.356 33.756	1.00164.48 1.00164.69	6 6
	'OM	14245	C	PRO G		52.599	43.160	36.002	1.00104.09	6
	'OM	14247	0	PRO G		53.227	42.800	37.028	1.00 52.68	8
	'OM	14248	N	ASN G		53.089	43.829	35.026	1.00 32.08	7
	'OM	14249	CA	ASN G		54.431	44.407	35.026	1.00128.24	6
	'MO'	14250	CB	ASN G		55.278	43.910	33.916	1.00125.71	6
	'OM	14251	CG		669	56.743	44.310	34.029	1.00146.68	6
	'OM	14252	OD1		669	57.072	45.493	34.119	1.00147.81	8
	'OM	14253	ND2	ASN G		57.631	43.319	34.016	1.00146.26	7
	'OM	14254	C		669	54.382	45.930	35.084	1.00127.00	6
	'OM	14255	Ō	ASN G		53.428	46.522	34.583	1.00126.52	8
	MO	14256	N	VAL G		55.415	46.557	35.642	1.00 63.00	7
	MO	14257	CA	VAL G		55.484	48.011	35.693	1.00 61.29	6
AT	MO	14258	СВ	VAL G		56.821	48.503	36.288	1.00 53.47	6
AT	MO	14259	CG1	VAL G	670	56.793	50.022	36.432	1.00 52.98	6
	MO	14260	CG2	VAL G		57.064	47.849	37.634	1.00 51.91	6
AT	MO	14261	С	VAL G	670	55.341	48.549	34.281	1.00 60.90	6
AT	MO	14262	0	VAL G	670	54.912	49.682	34.071	1.00 60.85	8
AT	MO	14263	N	LYS G	671	55.706	47.724	33.311	1.00 49.22	7
AT	MO	14264	CA	LYS G		55.591	48.119	31.919	1.00 50.52	6
AT	MO	14265	CB	LYS G		56.176	47.041	31.008	1.00104.96	6
	MO	14266	CG	LYS G		57.603	46.625	31.344	1.00105.63	6
	MO	14267	CD	LYS G		58.609	47.718	31.037	1.00105.64	6
	MO	14268	CE	LYS G		60.023	47.235	31.308	1.00105.25	6
	MO	14269	NZ	LYS G		61.030	48.239	30.876	1.00106.21	7
	MO	14270	C	LYS G		54.096	48.216	31.690	1.00 50.79	6
AT	MO	14271	0	LYS G	671	53.591	49.156	31.080	1.00 50.20	8

MOTA	14272	N	ALA G	672	53.397	47.212	32.198	1.00 91.90	7
MOTA	14273	CA	ALA G	672	51.957	47.149	32.079	1.00 92.72	6
MOTA	14274	CB	ALA G	672	51.462	45.838	32.651	1.00 54.28	6
MOTA	14275	C	ALA G		51.387	48.315	32.862	1.00 92.79	6
MOTA	14276	Ö	ALA G		50.385	48.920	32.479	1.00 93.15	8
ATOM	14277	N	ALA G		52.055	48.629	33.963	1.00 68.21	7
ATOM	14278	CA	ALA G		51.635	49.709	34.837		
	14279								6
ATOM		СВ	ALA G		52.749	50.031	35.827	1.00 89.90	6
ATOM	14280	C	ALA G		51.216	50.975	34.096	1.00 67.95	6
MOTA	14281	0	ALA G		50.031	51.302	34.032	1.00 67.40	8
ATOM	14282	N	ARG G		52.190	51.681	33.535	1.00 65.41	7
MOTA	14283	CA	ARG G		51.908	52.922	32.835	1.00 67.03	6
MOTA	14284	СВ	ARG G		53.205	53.506	32.273	1.00103.04	6
ATOM	14285	CG	ARG G	674	53.078	54.949	31.835	1.00104.24	6
ATOM	14286	$^{\mathrm{CD}}$	ARG G	674	52.793	55.058	30.353	1.00104.40	6
ATOM	14287	NE	ARG G	674	52.388	56.408	29.968	1.00105.20	7
MOTA	14288	CZ	ARG G	674	51.145	56.866	30.060	1.00105.41	6
MOTA	14289	NH1	ARG G	674	50.181	56.082	30.523	1.00104.98	7
ATOM	14290	NH2	ARG G	674	50.863	58.106	29.684	1.00106.31	7
ATOM	14291	С	ARG G	674	50.872	52.750	31.728	1.00 67.67	6
MOTA	14292	0	ARG G		50.029	53.625	31.509	1.00 67.06	8
MOTA	14293	N	ARG G		50.916	51.615	31.040	1.00108.48	7
MOTA	14294	CA	ARG G		49.966	51.376	29.965	1.00108.75	6
ATOM	14295	CB	ARG G		50.427	50.205	29.086	1.00127.82	6
MOTA	14296	CG	ARG G		49.981	50.321	27.623	1.00128.88	6
MOTA	14297	CD	ARG G		50.760	49.391	26.692	1.00129.54	6
MOTA	14298	NE	ARG G		52.204	49.594	26.792	1.00130.47	7
ATOM	14299	CZ	ARG G		53.016	48.857	27.546	1.00130.47	6
ATOM	14300	NH1	ARG G		52.527	47.855	28.266	1.00130.82	7
MOTA	14301	NH2	ARG G		54.315	49.131	27.589	1.00130.02	7
ATOM	14302	C	ARG G		48.582	51.109	30.546	1.00107.51	6
ATOM	14303	Ö	ARG G		47.585	51.116	29.832	1.00107.12	8
ATOM	14304	N		676	48.521	50.880	31.851	1.00 60.35	7
ATOM	14305	CA		676	47.239	50.639	32.495	1.00 60.55	6
MOTA	14306	CB	MET G	676	47.383	49.711	33.695	1.00 72.73	6
ATOM	14307	CG	MET G	676	46.073	49.476	34.430	1.00 72.73	6
ATOM	14308	SD	MET G	676	46.295	48.294	35.745	1.00 72.38	16
ATOM	14300	CE			46.293	46.294	34.793	1.00 72.42	
ATOM	14310	CE		676			32.963		6
ATOM	14310	0		676	46.659 45.488	51.958 52.031	33.336		6 8
ATOM	14311	-				52.031		1.00 60.07 1.00 65.74	
ATOM		N	LEU G LEU G		47.501		32.981		7
ATOM	14313 14314	CA			47.066	54.321	33.362	1.00 66.76	6
		CB	LEU G		48.085	55.023	34.274	1.00 25.52	6
MOTA	14315	CG	LEU G		48.594	54.395	35.584	1.00 24.47	6
MOTA	14316	CD1	LEU G		49.595	55.345	36.213	1.00 23.03	6
MOTA	14317		LEU G		47.466	54.112	36.561	1.00 24.12	6
MOTA	14318	C	LEU G		47.027	55.013	32.014	1.00 68.67	6
ATOM	14319	0	LEU G		46.622	56.164	31.893	1.00 68.96	8
MOTA	14320	N	GLU G		47.453	54.273	30.997	1.00168.88	7
MOTA	14321	CA	GLU G		47.500	54.770	29.633	1.00171.52	6
MOTA	14322	CB	GLU G		48.436	53.893	28.805	1.00 87.26	6
MOTA	14323	CG	GLU G		48.953	54.529	27.538	1.00 86.39	6
MOTA	14324	CD OH1	GLU G		50.389	54.947	27.677	1.00 85.88	6
MOTA	14325	OE1			51.194	54.099	28.115	1.00 85.47	8
ATOM	14326	OE2			50.716	56.109	27.348	1.00 85.93	8
MOTA	14327	С	GLU G	0/0	46.110	54.785	28.997	1.00173.21	6

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ATOM	14328	0	GLU G	678	45.916	55.377	27.933	1.00173.73	8
MOTA	14329	N	ARG G		45.149	54.126	29.641	1.00 82.26	7
ATOM	14330	CA	ARG G		43.785	54.095	29.125	1.00 83.68	6
ATOM	14331	CB	ARG G		42.916	53.107	29.912	1.00128.49	6
ATOM ATOM	14332 14333	CG CD	ARG G ARG G		43.183 42.054	51.636	29.611	1.00129.03	6
ATOM	14333	NE	ARG G		42.054	50.752 49.354	30.154 29.737	1.00129.61 1.00129.74	6 7
ATOM	14335	CZ		679	41.224	48.436	29.737	1.00129.74	6
ATOM	14336	NH1	ARG G		40.055	48.760	30.411	1.00129.12	7
MOTA	14337	NH2	ARG G		41.435	47.191	29.462	1.00129.43	7
ATOM	14338	С	ARG G	679	43.180	55.492	29.216	1.00 84.53	6
MOTA	14339	0		679	41.993	55.648	29.504	1.00 84.12	8
ATOM	14340	N	GLN G	680	44.025	56.491	28.970	1.00153.00	7
MOTA	14341	CA	GLN G	680	43.666	57.905	28.983	1.00154.45	6
ATOM ATOM	14342 14343	CB CG	GLN G GLN G	680	43.039	58.291	27.634	1.00144.51	6
ATOM	14343	CD	GLN G		41.873 41.491	57.409 57.618	27.184 25.724	1.00146.04	6 6
ATOM	14345	OE1	GLN G		40.546	57.018	25.724	1.00147.12 1.00147.19	8
ATOM	14346	NE2		680	42.227	58.483	25.032	1.00148.35	7
ATOM	14347	С	GLN G		42.777	58.375	30.132	1.00154.84	6
ATOM	14348	0	GLN G	680	43.148	59.289	30.871	1.00155.73	8
ATOM	14349	N	ARG G		41.609	57.761	30.284	1.00139.08	7
ATOM	14350	CA	ARG G		40.684	58.144	31.341	1.00138.36	6
ATOM	14351	CB		681	39.772	59.263	30.832	1.00 91.06	6
ATOM ATOM	14352 14353	CG	ARG G	681	40.552	60.517	30.464	1.00 91.28	6
ATOM	14353	CD NE	ARG G ARG G	681	39.747 40.460	61.508 62.777	29.641 29.495	1.00 92.01 1.00 92.46	6 7
ATOM	14355	CZ	ARG G		39.964	63.854	28.895	1.00 92.46	6
ATOM	14356	NH1	ARG G		38.745	63.828	28.371	1.00 93.70	7
ATOM	14357	NH2	ARG G		40.681	64.967	28.830	1.00 92.75	7
MOTA	14358	С		681	39.859	56.956	31.827	1.00137.79	6
MOTA	14359	0		681	39.253	56.244	31.026	1.00137.92	8
ATOM	14360	N	ASP G	682	39.867	56.766	33.148	1.00104.99	7
MOTA	14361	CA		682	39.160	55.698	33.864	1.00103.46	6
MOTA MOTA	14362 14363	CB CG		682 682	38.302 36.966	54.839 55.480	32.928 32.607	1.00163.15	6 6
ATOM	14364	OD1		682	36.219	55.807	33.555	1.00165.34 1.00165.78	8
MOTA	14365	OD1		682	36.663	55.654	31.407	1.00165.78	8
MOTA	14366	C		682	40.116	54.788	34.625	1.00101.32	6
ATOM	14367	0	ASP G		40.609	53.793	34.096	1.00101.09	8
ATOM	14368	N	ILE G		40.374	55.144	35.875	1.00 86.94	7
ATOM	14369	CA	ILE G		41.249	54.363	36.736	1.00 83.46	6
ATOM	14370	CB	ILE G		42.314	55.232	37.387	1.00 51.21	6
ATOM ATOM	$14371 \\ 14372$	CG2 CG1	ILE G		43.171 43.127	54.373 55.959	38.304 36.324	1.00 50.34 1.00 50.15	6 6
ATOM	14372	CD1	ILE G		44.025	57.015	36.916	1.00 50.15	6
ATOM	14374	C	ILE G		40.377	53.841	37.860	1.00 81.93	6
ATOM	14375	Ö	ILE G		39.948	54.615	38.712	1.00 81.42	8
MOTA	14376	N	LYS G		40.106	52.545	37.889	1.00 76.45	7
MOTA	14377	CA		684	39.257	52.065	38.962	1.00 74.88	6
MOTA	14378	CB	LYS G		38.789	50.624	38.743	1.00122.35	6
ATOM ATOM	14379 14380	CG CD	LYS G		37.513	50.306	39.537	1.00123.25	6
ATOM	14380	CE	LYS G LYS G		37.482 36.303	48.874 48.657	40.054 40.998	1.00124.08 1.00124.43	6 6
ATOM	14382	NZ	LYS G		36.359	47.338	41.692	1.00124.41	7
ATOM	14383	C	LYS G		39.992	52.160	40.279	1.00 72.87	6

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ATOM	14384	0	LYS G		41.218	52.069	40.344	1.00 72.45	8
MOTA	14385	N	ASP G		39.204	52.350	41.324	1.00 46.96	7
MOTA	14386	CA	ASP G		39.688	52.480	42.685	1.00 44.48	6
MOTA	14387	CB	ASP G		38.530	52.193	43.654	1.00 38.62	6
ATOM	14388	CG	ASP G	685	37.279	51.678	42.946	1.00 36.98	6
ATOM	14389	OD1	ASP G	685	36.782	52.331	42.000	1.00 35.77	8
MOTA	14390	OD2	ASP G	685	36.790	50.613	43.354	1.00 37.11	8
ATOM	14391	С	ASP G	685	40.911	51.644	43.073	1.00 43.47	6
ATOM	14392	0	ASP G	685	41.707	52.070	43.902	1.00 42.39	8
ATOM	14393	N	GLU G		41.070	50.465	42.481	1.00 69.13	7
ATOM	14394	CA	GLU G		42.200	49.600	42.819	1.00 68.84	6
ATOM	14395	СВ	GLU G		42.256	48.417	41.858	1.00127.87	6
ATOM	14396	CG	GLU G	686	40.977	47.618	41.806	1.00130.65	6
ATOM	14397	CD	GLU G		41.166	46.299	41.100	1.00132.99	6
MOTA	14398	OE1	GLU G	686	41.989	45.491	41.583	1.00135.19	8
MOTA	14399	OE2	GLU G	686	40.501	46.071	40.068	1.00132.61	8
ATOM	14400	С	GLU G		43.545	50.329	42.812	1.00 66.66	6
ATOM	14401	0	GLU G		44.486	49.929	43.505	1.00 66.14	8
ATOM	14402	N	VAL G		43.632	51.392	42.016	1.00 69.55	7
MOTA	14403	CA	VAL G		44.851	52.174	41.934	1.00 66.75	6
MOTA	14404	СВ	VAL G		45.239	52.471	40.484	1.00 79.16	6
MOTA	14405	CG1	VAL G		46.303	53.553	40.435	1.00 78.97	6
MOTA	14406	CG2	VAL G		45.789	51.216	39.851	1.00 79.57	6
MOTA	14407	С	VAL G	687	44.718	53.472	42.707	1.00 64.40	6
ATOM	14408	0	VAL G	687	45.658	53.872	43.379	1.00 64.19	8
ATOM	14409	N	TRP G	688	43.572	54.144	42.624	1.00 34.82	7
MOTA	14410	CA	TRP G	688	43.430	55.369	43.400	1.00 32.17	6
MOTA	14411	CB	TRP G	688	41.989	55.844	43.443	1.00 42.38	6
MOTA	14412	CG	TRP G	688	41.674	56.816	42.383	1.00 40.93	6
ATOM	14413	CD2	TRP G	688	42.522	57.840	41.883	1.00 39.77	6
MOTA	14414	CE2	TRP G	688	41.824	58.495	40.852	1.00 39.82	6
MOTA	14415	CE3	TRP G	688	43.806	58.267	42.197	1.00 40.07	6
MOTA	14416	CD1	TRP G	688	40.526	56.892	41.667	1.00 41.78	6
MOTA	14417	NE1	TRP G	688	40.601	57.895	40.741	1.00 41.05	7
MOTA	14418	CZ2	TRP G	688	42.362	59.548	40.138	1.00 39.17	6
MOTA	14419	CZ3	TRP G	688	44.343	59.315	41.486	1.00 40.39	6
MOTA	14420	CH2	TRP G		43.622	59.943	40.466	1.00 40.16	6
ATOM	14421	C	TRP G		43.902	55.069	44.811	1.00 31.35	6
ATOM	14422	0	TRP G		44.760	55.767	45.347	1.00 31.58	8
ATOM	14423	N		689	43.357	54.011	45.398	1.00 36.23	7
ATOM	$14424 \\ 14425$	CA CB	ASP G		43.735	53.606 52.289	46.741	1.00 37.19	6
ATOM	14425	CG	ASP G ASP G		43.048		47.130	1.00 84.86	6
ATOM	14427		ASP G		41.618 41.361	52.484	47.602	1.00 87.86	6
ATOM	14427	OD1	ASP G		40.760	53.479	48.317	1.00 89.18 1.00 88.73	8
ATOM	14429	C	ASP G		45.248	51.631 53.429	47.274 46.863	1.00 88.73	8 6
ATOM	14430	0	ASP G		45.731	52.814	47.826	1.00 30.89	8
ATOM	14431	N	ALA G		45.997	53.957	45.896	1.00 37.89	7
ATOM	14432	CA	ALA G		47.452	53.859	45.925	1.00 35.82	6
ATOM	14433	CB	ALA G		47.432	53.525	44.549	1.00 33.82	6
MOTA	14434	C	ALA G		48.115	55.132	46.444	1.00 35.02	6
ATOM	14435	Õ	ALA G		48.864	55.093	47.419	1.00 33.34	8
ATOM	14436	Ň	LEU G		47.857	56.256	45.791	1.00 49.11	7
ATOM	14437	CA	LEU G		48.454	57.496	46.245	1.00 49.90	6
ATOM	14438	СВ	LEU G		48.005	58.671	45.373	1.00 13.87	6
ATOM	14439	CG	LEU G		48.000	58.476	43.864	1.00 13.87	6

ATOM ATOM	14440 14441	CD2	LEU G	691	46.955 47.696	57.450 59.765	43.541	1.00 13.87 1.00 13.87	6
MOTA MOTA	$14442 \\ 14443$	C O	LEU G LEU G		47.959 48.702	57.681 58.115	47.679 48.566	1.00 52.48 1.00 53.88	6 8
ATOM	14444	N		692	46.695	57.335	47.908	1.00 97.21	7
ATOM	14445	CA	GLU G		46.127	57.458	49.241	1.00 98.91	6
ATOM	14446	СВ	GLU G		44.691	56.904	49.282	1.00 73.29	6
MOTA	14447	CG	GLU G		43.657	57.771	48.529	1.00 74.54	6
MOTA	14448	CD	GLU G		42.246	57.166	48.487	1.00 74.13	6
MOTA	14449	OE1	GLU G		41.698	56.858	49.564	1.00 74.43	8
MOTA	14450	OE2			41.678	57.009	47.381	1.00 73.17 1.00 99.71	8
MOTA MOTA	$14451 \\ 14452$	C 0	GLU G GLU G		47.045 46.965	56.672 56.794	50.161 51.383	1.00 99.71	6 8
ATOM	14452	N	GLU G		40.903	55.872	49.556	1.00101.23	7
ATOM	14454	CA	GLU G		48.896	55.082	50.304	1.00 34.46	6
MOTA	14455	CB	GLU G		48.758	53.589	50.003	1.00 74.88	6
ATOM	14456	CG	GLU G	693	49.753	52.758	50.810	1.00 76.85	6
MOTA	14457	CD	GLU G		49.538	51.266	50.693	1.00 78.68	6
MOTA	14458	OE1	GLU G		48.424	50.798	51.016	1.00 80.74	8
MOTA	14459	OE2	GLU G		50.489	50.562	50.288	1.00 78.64	8
MOTA	14460	C	GLU G		50.340 51.218	55.516 55.305	50.035 50.872	1.00 34.30 1.00 34.92	6 8
MOTA MOTA	14461 14462	O N	GLU G VAL G		50.592	56.111	48.869	1.00 54.92	7
ATOM	14463	CA	VAL G		51.937	56.599	48.520	1.00 61.55	6
MOTA	14464	CB	VAL G		52.059	56.888	47.012	1.00 42.74	6
MOTA	14465	CG1			53.492	57.256	46.661	1.00 42.49	6
MOTA	14466	CG2			51.591	55.692	46.227	1.00 43.31	6
MOTA	14467	C	VAL G		52.120	57.919	49.257	1.00 60.03	6
ATOM	14468	0		694	52.919	58.033	50.190	1.00 58.95	8 7
MOTA MOTA	14469 14470	N CA	ILE G	695 695	51.356 51.328	58.905 60.234	48.802 49.374	1.00 46.85 1.00 45.93	6
ATOM	14470	CB	ILE G		49.973	60.234	49.374	1.00 45.86	6
ATOM	14472	CG2	ILE G		49.745	62.097	50.004	1.00 45.84	6
MOTA	14473	CG1	ILE G		49.912	61.321	47.619	1.00 46.05	6
MOTA	14474	CD1	ILE G	695	48.638	62.051	47.274	1.00 46.62	6
MOTA	14475	C	ILE G		51.475	60.143	50.882	1.00 45.93	6
MOTA	14476	0	ILE G		51.982	61.060	51.530	1.00 46.59	8
MOTA	14477	N	HIS G		51.029	59.027 58.857	51.440 52.877	1.00 37.20 1.00 37.10	7 6
ATOM ATOM	14478 14479	CA CB	HIS G		51.077 50.621	57.466	53.275	1.00 37.10	6
ATOM	14480	CG	HIS G		49.890		54.573	1.00 65.83	6
ATOM	14481		HIS G		50.312	57.169	55.827	1.00 67.81	6
ATOM	14482		HIS G		48.573	57.835	54.685	1.00 67.75	7
ATOM	14483		HIS G		48.214	57.798	55.955	1.00 68.94	6
MOTA	14484	NE2			49.251	57.399	56.669	1.00 68.75	7
ATOM	14485	C	HIS G		52.432	59.126	53.486	1.00 34.92	6
ATOM	14486 14487	O NT	HIS G GLY G		53.402 52.479	58.414 60.166	53.222 54.313	1.00 34.04 1.00 61.97	8 7
MOTA ATOM	14487	N CA	GLY G		53.711	60.540	54.976	1.00 60.50	6
ATOM	14489	C	GLY G		54.517	61.512	54.149	1.00 59.15	6
ATOM	14490	Ö	GLY G		55.432	62.161	54.644	1.00 59.68	8
MOTA	14491	N	LYS G	698	54.176	61.615	52.875	1.00 32.49	7
MOTA	14492	CA	LYS G		54.894	62.505	51.997	1.00 30.03	6
ATOM	14493	CB	LYS G		54.908	61.952	50.574	1.00 59.08	6
ATOM	14494	CG	LYS G		55.761	60.705	50.420	1.00 61.54	6 6
ATOM	14495	CD	LYS G	070	55.662	60.129	49.031	1.00 63.05	U

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	14496 14497 14498 14499 14500 14501 14502 14503 14504	CE NZ C O N CA CB CG1 CG2		698 698 698 699 699 699	56.521 56.228 54.250 53.036 55.083 54.604 55.314 55.126 56.773	58.890 58.133 63.853 63.973 64.874 66.230 67.082 66.500 67.201	48.915 47.662 52.015 52.102 51.951 51.938 52.960 54.326 52.596	1.00 1.00 1.00 1.00 1.00 1.00	64.81 66.75 27.60 27.52 33.63 32.05 18.04 18.53 19.26	6 7 6 8 7 6 6 6 6
ATOM ATOM	14505 14506	C O	VAL G 6	699	54.944 55.728	66.769 66.163	50.576 49.851		30.37 30.18	6 8
ATOM ATOM	14507 14508	N CA		700 700	54.362 54.596	67.910 68.544	50.237 48.952	1.00	47.17 44.94	7 6
ATOM ATOM	14509 14510	CB CG1	VAL G T	700 700	53.392 53.590	68.344 69.095	48.028 46.740		13.87 13.87	6 6
MOTA	14511	CG2	VAL G	700	53.226	66.882	47.730	1.00	13.87	6
ATOM ATOM	14512 14513	C O		700 700	54.809 54.151	70.032 70.623	49.173 50.025		45.13 46.25	6 8
ATOM	14514	N	LEU G	701	55.733	70.635	48.425	1.00	31.56	7
ATOM ATOM	14515 14516	CA CB	LEU G '	701 701	56.006 57.398	72.065 72.389	48.549 48.014		30.51 19.40	6 6
ATOM	14517	CG	LEU G '	701	58.572	72.159	48.967	1.00	19.97	6
ATOM ATOM	14518 14519	CD1 CD2	LEU G '	701 701	58.323 59.839	70.961 71.957	49.838 48.181	1.00	21.06 20.10	6 6
ATOM	14520	CDZ	LEU G '	701	54.968	72.828	47.758	1.00	31.25	6
ATOM ATOM	14521 14522	N O	LEU G		54.595 54.484	72.417 73.928	46.662 48.318		31.89 13.87	8 7
ATOM	14523	CA	LEU G		53.486	74.743	47.625	1.00	13.87	6
ATOM	14524	CB		702 702	52.242 50.864	74.881 74.734	48.513 47.879	$1.00 \\ 1.00$	13.87 13.87	6 6
ATOM ATOM	14525 14526	CG CD1		702 702	50.695	75.788	46.818	1.00		6
ATOM	14527	CD2	LEU G		50.730	73.382	47.268 47.362	1.00	13.87 16.31	6 6
MOTA MOTA	14528 14529	C 0	LEU G '	702 702	54.159 54.962	76.101 76.538	48.171	1.00	15.48	8
ATOM	14530	N		703	53.880	76.766	46.245		34.74	7
ATOM ATOM	14531 14532	CA CB	ASN G '		54.563 55.876	78.039 77.807	46.002 45.251	$1.00 \\ 1.00$	39.25 63.81	6 6
MOTA	14533	CG	ASN G		56.366	79.059	44.529	1.00	65.71	6
MOTA MOTA	14534 14535	OD1 ND2	ASN G 'ASN G '		56.243 56.928	80.170 78.881	45.044 43.335	1.00	69.41 64.14	8 7
MOTA	14536	С	ASN G	703	53.803		45.275		40.59	6
ATOM ATOM	14537 14538	O N	ASN G 'ARG G '		53.155 53.940	78.860 80.345	44.268 45.771		42.16 50.15	8 7
MOTA	14539	CA	ARG G '	704	53.276	81.509	45.195		51.77	6
MOTA MOTA	14540 14541	CB CG	ARG G '		52.660 52.414	82.354 83.815	46.305 45.942		71.61 72.56	6 6
MOTA	14542	CD	ARG G '	704	51.095	84.021	45.251		71.72	6
MOTA MOTA	14543 14544	NE CZ	ARG G '		50.763 49.553	85.437 85.901	45.220 44.945		71.33 72.09	7 6
MOTA	14545	NH1	ARG G '	704	48.577	85.053	44.679	1.00	73.18	7
MOTA MOTA	14546 14547	NH2 C	ARG G '		49.313 54.199	87.203 82.390	44.948 44.361		72.05 52.25	7 6
MOTA	14548	0	ARG G	704	55.392	82.505	44.647	1.00	53.60	8 7
MOTA MOTA	14549 14550	N CA	ALA G '		53.597 54.249	83.032 83.922	43.359 42.399		59.29 58.39	6
MOTA	14551	CB	ALA G		53.238	84.941	41.897		32.08	6

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ATOM ATOM ATOM	14552 14553 14554	C O N	ALA G	705 705 706	55.545 56.603 55.498	84.625 83.996 85.935	42.811 42.855 43.107	1.00 5 1.00 6 1.00 4	0.43	6 8 7
ATOM	14555	CD		706	54.396 56.779	86.843	43.468 43.484	1.00 1 1.00 4		6 6
ATOM ATOM	14556 14557	CA CB	PRO G PRO G	706 706	56.451	86.531 88.003	43.404		7.10	6
ATOM	14558	CG	PRO G	706	55.126	87.975	44.165	1.00 1	6.10	6
ATOM	14559	C	PRO G	706	57.174	86.004	44.846	1.00 4		6 8
ATOM ATOM	14560 14561	O N	PRO G THR G	706 707	56.429 58.334	86.168 85.372	45.807 44.944	1.004 1.005		7
ATOM	14562	CA		707	58.743	84.833	46.228	1.00 5		6
MOTA	14563	СВ		707	59.451	83.505	46.064		3.87	6
ATOM	14564	OG1 CG2	THR G	707 707	58.738 59.495	82.713 82.771	45.112 47.386		3.87 3.87	8 6
ATOM ATOM	14565 14566	CGZ	THR G	707	59.495	85.778	46.977	1.00 5		6
ATOM	14567	Ö		707	60.609	86.308	46.428	1.00 6	0.89	8
ATOM	14568	N		708	59.342	85.980	48.244		0.92	7
ATOM	14569 14570	CA CB	LEU G LEU G	708 708	60.101 59.351	86.854 88.162	49.113 49.245		0.27 0.27	6 6
ATOM	14571	CG	LEU G	708	58.937	88.593	47.835	1.00 5		6
ATOM	14572	CD1	LEU G	708	57.711	89.509	47.857	1.00 5		6
MOTA	14573	CD2		708	60.148	89.245 86.063	47.172 50.398	1.00 5 1.00 2		6 6
ATOM ATOM	14574 14575	C O	LEU G LEU G	708 708	60.078 59.076	85.442	50.396	1.00 2		8
ATOM	14576	N	HIS G	709	61.163	86.074	51.152	1.00 2	0.02	7
MOTA	14577	CA	HIS G	709	61.272	85.280	52.384	1.00 2		6
MOTA MOTA	14578 14579	CB CG	HIS G	709 709	60.578 59.091	85.957 86.111	53.596 53.470	1.00 2 1.00 2		6 6
ATOM	14579	CD2		709	58.075	85.401	54.012	1.00 2		6
MOTA	14581		HIS G	709	58.501	87.113	52.732	1.00 2		7
MOTA	14582	CE1 NE2	HIS G	709 709	57.188 56.903	87.011 85.981	52.822 53.593	1.00 2 1.00 2		6 7
MOTA ATOM	14583 14584	NEZ C	HIS G	709	60.826	83.804	52.274		0.07	6
ATOM	14585	Ö	HIS G	709	59.842	83.451	51.620	1.00 1	8.92	8
ATOM	14586	N		710	61.605	82.943	52.919	1.00 3	0.46 9.87	7
MOTA MOTA	14587 14588	CA CB	ARG G ARG G	710 710	61.350 61.948	81.509 80.899	52.947 54.232		9.87 5.37	6 6
MOTA	14589	CG	ARG G	710	61.425	81.525	55.516		6.40	6
ATOM	14590	CD	ARG G	710	61.844	80.760	56.744		6.25	6
ATOM	14591	NE CZ		710	63.271 63.846	80.851 80.480	56.985 58.123	1.00 3 1.00 3	8.39 9.64	7 6
ATOM ATOM	14592 14593	CZ NH1		710 710	63.105	79.993	59.111	1.00 3		7
MOTA	14594	NH2	ARG G	710	65.155	80.613	58.286	1.00 4	0.25	7
MOTA	14595	C	ARG G		59.869	81.174	52.882 52.157	1.00 2 1.00 2		6 8
MOTA ATOM	14596 14597	N O	ARG G LEU G		59.472 59.058	80.272 81.904	53.647	1.00 2 $1.00 4$		7
MOTA	14598	CA	LEU G		57.625	81.655	53.691	1.00 4	3.96	6
MOTA	14599	СВ	LEU G		56.963	82.450	54.829		6.37	6
ATOM ATOM	14600 14601	CG CD1		711 711	57.333 56.143	82.109 82.399	56.279 57.189	1.00 1 1.00 1		6 6
ATOM	14601	CD1			57.724	80.654	56.402	1.00 1		6
MOTA	14603	С	LEU G	711	56.891	81.908	52.377	1.00 4	5.04	6
MOTA	14604	O	LEU G GLY G		55.711 57.596	82.243 81.745	52.366 51.268	1.004 1.004		8 7
MOTA MOTA	14605 14606	N CA	GLY G		56.967	81.745	49.975	1.004		6
ATOM	14607	C	GLY G		56.672	80.521	49.457	1.00 4		6

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ATOM	14652	С	PRO G	718	47.527	65.596	50.743	1.00 15.32	6
ATOM	14654	N	VAL G	719	46.395	65.943	50.136	1.00 16.51	7
ATOM	14656	CB	VAL G	719	44.532	66.392	51.655	1.00 14.46	6
${f ATOM}$	14657 14658	CG1 CG2	VAL G VAL G		43.148 45.414	65.949 66.308	52.007 52.870	1.00 14.39 1.00 14.74	6 6
ATOM	14659	C	VAL G	719	44.172	65.567	49.351	1.00 17.89	6
MOTA MOTA	14660 14661	O N	VAL G LEU G		43.609 44.049	66.611 64.433	49.047 48.663	1.00 16.69 1.00 20.33	8 7
ATOM	14662	CA	LEU G	720	43.241	64.305	47.460	1.00 21.11	6
ATOM	14663	СВ	LEU G	720	43.025	62.829	47.126	1.00 14.64	6

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ATOM 14668 O LEU G 720	ATOM ATOM ATOM	14664 14665 14666	CG CD1 CD2		720 720 720	44.124 45.426 43.669	62.364 62.116 61.121	46.165 46.909 45.462	1.00 13.87 1.00 13.87 1.00 14.34	' 6
ATOM 14669 N VAL G 721 41.821 65.988 46.529 1.00 39.17 7 ATOM 14670 CA VAL G 721 40.662 66.845 46.364 1.00 42.72 6 ATOM 14671 CB VAL G 721 41.084 68.336 46.571 1.00 54.49 6 ATOM 14673 CG2 VAL G 721 41.824 68.491 47.893 1.00 55.86 6 ATOM 14673 CG2 VAL G 721 40.043 66.657 44.971 1.00 44.38 6 ATOM 14675 C VAL G 721 40.043 66.657 44.971 1.00 44.38 6 ATOM 14676 N GLU G 722 39.10 67.527 44.628 1.00 58.78 7 ATOM 14677 CA GLU G 722 39.10 67.527 44.628 1.00 58.78 7 ATOM 14678 CB GLU G 722 39.10 67.527 44.628 1.00 58.78 7 ATOM 14678 CB GLU G 722 35.947 67.470 43.333 1.00 85.56 6 ATOM 14678 CB GLU G 722 35.947 67.470 43.233 1.00 89.94 6 ATOM 14680 CD GLU G 722 36.653 65.793 44.770 1.00 93.46 8 ATOM 14680 CD GLU G 722 36.653 65.793 44.770 1.00 93.46 8 ATOM 14681 OEI GLU G 722 39.214 67.763 42.090 1.00 59.65 6 ATOM 14684 O GLU G 722 39.214 67.763 42.090 1.00 59.65 6 ATOM 14685 N GLU G 723 39.224 67.36 39.995 1.00 83.50 8 ATOM 14686 CA GLU G 723 39.246 67.470 41.902 1.00 61.04 8 ATOM 14685 N GLU G 723 38.645 68.60 341.226 1.00 40.93 7 ATOM 14688 N GLY G 723 39.825 70.63 39.950 1.00 38.76 6 ATOM 14689 N GLN G 723 39.825 70.63 39.917 1.00 37.33 6 ATOM 14689 N GLN G 724 41.141 70.325 39.476 1.00 29.06 7 ATOM 14689 N GLN G 724 41.822 71.559 39.176 1.00 26.74 6 ATOM 14690 CA GLN G 724 41.822 71.559 39.176 1.00 25.52 8 ATOM 14690 CA GLN G 724 41.82 71.559 39.176 1.00 25.52 8 ATOM 14690 CA GLN G 724 41.345 72.288 38.022 1.00 40.38 6 ATOM 14690 CA GLN G 724 41.345 72.286 39.617 1.00 37.33 6 ATOM 14690 CA GLN G 724 41.345 72.286 39.045 1.00 42.31 6 ATOM 14690 CA GLN G 724 41.345 72.286 39.045 1.00 42.31 6 ATOM 14690 CA GLN G 724 41.345 72.286 39.045 1.00 42.31 6 ATOM 14691 CB GLN G 724 41.345 72.286 39.045 1.00 42.31 6 ATOM 14691 CB GLN G 724 41.345 72.286 39.045 1.00 42.31 6 ATOM 14691 CB GLN G 724 41.345 72.286 39.045 1.00 42.31 6 ATOM 14701 CB SER G 725 42.253 73.526 42.253 1.00 42.31 6 ATOM 14702 C SER G 725 42.253 73.526 42.259 1.00 14.20 6 ATOM 14701 C BL G 726 44.345 73.952 43.246 1.00 25.52 8 ATOM 14701 C C BL G 726 44.345 73	ATOM	14667	С	LEU G '						
ATOM 14670 CA VAL G 721										
ATOM 14671 CB VAL G 721										
ATOM 14673 CG1 VAL G 721										
ATOM 14676 C VAL C 721								46.548		
ATOM 14675 O VAL G 721 ATOM 14676 N GLU G 722 ATOM 14677 CA GUU G 722 ATOM 14677 CA GUU G 722 ATOM 14678 CB GLU G 722 ATOM 14678 CB GLU G 722 ATOM 14679 CG GLU G 722 ATOM 14679 CG GLU G 722 ATOM 14680 CD GLU G 722 ATOM 14680 CD GLU G 722 ATOM 14680 CD GLU G 722 ATOM 14681 OEI GLU G 722 ATOM 14681 OEI GLU G 722 ATOM 14682 OE2 GLU G 722 ATOM 14682 OE2 GLU G 722 ATOM 14684 OF GLU G 722 ATOM 14685 N GLY G 723 ATOM 14685 N GLY G 723 ATOM 14686 CA GLY G 723 ATOM 14686 CA GLY G 723 ATOM 14687 CG GLU G 722 ATOM 14688 O GLY G 723 ATOM 14688 O GLY G 723 ATOM 14687 C GLY G 723 ATOM 14688 O GLY G 723 ATOM 14688 O GLY G 723 ATOM 14689 N GLY G 723 ATOM 14689 N GLY G 723 ATOM 14689 N GLN G 724 ATOM 14690 CA GLN G 725 ATOM 14690 CA GLN G 726 ATOM 14700 CB SER G 725 ATOM 14700 CB										
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ATOM 14696 C GLN G 724 41.845 72.412 40.427 1.00 25.18 6 ATOM 14697 O GLN G 724 41.233 72.061 41.436 1.00 25.52 8 ATOM 14698 N SER G 725 42.563 73.526 40.356 1.00 19.49 7 ATOM 14699 CA SER G 725 42.723 74.435 41.485 1.00 17.67 6 ATOM 14700 CB SER G 725 41.448 75.274 41.705 1.00 13.87 6 ATOM 14701 OG SER G 725 40.322 74.505 42.059 1.00 13.87 8 ATOM 14702 C SER G 725 43.126 73.699 42.768 1.00 16.50 6 ATOM 14703 O SER G 725 42.358 72.896 43.299 1.00 16.70 8 ATOM 14704 N ILE G 726 44.345 73.952 43.246 1.00 20.69 7 ATOM 14705 CA ILE G 726 44.817 73.305 44.465 1.00 19.81 6 ATOM 14706 CB ILE G 726 46.353 73.548 44.721 1.00 14.20 6 ATOM 14707 CG2 ILE G 726 46.787 72.857 45.997 1.00 14.72 6 ATOM 14708 CG1 ILE G 726 47.218 72.976 43.589 1.00 14.72 6 ATOM 14709 CD1 ILE G 726 47.218 72.976 43.589 1.00 17.23 6 ATOM 14710 C ILE G 726 44.013 73.960 45.571 1.00 18.92 6 ATOM 14711 O ILE G 726 43.654 75.116 45.448 1.00 19.18 8 ATOM 14712 N GLN G 727 43.706 73.220 46.629 1.00 13.87 7 ATOM 14713 CA GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14714 CB GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14714 CB GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14715 CG GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14716 CD GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14715 CG GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14716 CD GLN G 727 39.644 71.914 48.326 1.00 23.54 6 ATOM 14717 OE1 GLN G 727 39.644 71.914 48.326 1.00 23.54 6 ATOM 14716 CD GLN G 727 39.644 71.914 48.326 1.00 23.54 6 ATOM 14717 OE1 GLN G 727 39.644 71.914 48.326 1.00 23.54 6 ATOM 14718 NE2 GLN G 727 39.644 71.914 48.326 1.00 25.77 8		14694								
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ATOM 14698 N SER G 725										
ATOM 14699 CA SER G 725										
ATOM 14701 OG SER G 725		14699	CA							
ATOM 14702 C SER G 725										
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ATOM 14704 N ILE G 726									1.00 16.70	8 (
ATOM 14706 CB ILE G 726	MOTA									
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ATOM 14711 O ILE G 726 43.654 75.116 45.448 1.00 19.18 8 ATOM 14712 N GLN G 727 43.706 73.220 46.629 1.00 13.87 7 ATOM 14713 CA GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14714 CB GLN G 727 41.992 72.722 48.305 1.00 24.01 6 ATOM 14715 CG GLN G 727 40.716 72.603 47.528 1.00 23.54 6 ATOM 14716 CD GLN G 727 39.644 71.914 48.326 1.00 25.34 6 ATOM 14717 OE1 GLN G 727 38.481 71.856 47.916 1.00 25.77 8 ATOM 14718 NE2 GLN G 727 40.024 71.385 49.484 1.00 24.98 7		14709	CD1	ILE G	726					
ATOM 14712 N GLN G 727 43.706 73.220 46.629 1.00 13.87 7 ATOM 14713 CA GLN G 727 42.950 73.767 47.749 1.00 14.48 6 ATOM 14714 CB GLN G 727 41.992 72.722 48.305 1.00 24.01 6 ATOM 14715 CG GLN G 727 40.716 72.603 47.528 1.00 23.54 6 ATOM 14716 CD GLN G 727 39.644 71.914 48.326 1.00 25.34 6 ATOM 14717 OE1 GLN G 727 38.481 71.856 47.916 1.00 25.77 8 ATOM 14718 NE2 GLN G 727 40.024 71.385 49.484 1.00 24.98 7										
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ATOM 14716 CD GLN G 727 39.644 71.914 48.326 1.00 25.34 6 ATOM 14717 OE1 GLN G 727 38.481 71.856 47.916 1.00 25.77 8 ATOM 14718 NE2 GLN G 727 40.024 71.385 49.484 1.00 24.98 7	MOTA	14714	CB	GLN G	727	41.992	72.722			
ATOM 14717 OE1 GLN G 727 38.481 71.856 47.916 1.00 25.77 8 ATOM 14718 NE2 GLN G 727 40.024 71.385 49.484 1.00 24.98 7										
ATOM 14718 NE2 GLN G 727 40.024 71.385 49.484 1.00 24.98 7										
				GLN G	727	40.024	71.385	49.484	1.00 24.98	3 7
			С	GLN G	727	43.880	74.231	48.861	1.00 15.32	2 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	14721 14722 14722 14722 14722 14722 14722 14722 14722 14722 14733 14733 14733 14733 14742 14747 14747 14747 14747 14747 14747 14747 14747 14755 14755 14755 14755	ND1 CE1 NE2 C O N CD CA CB CG CD1 CD2 C O N CA	LEU G G LEU G G HIS G PRO G PRO G PRO G PRO G PRO G LEU G CLEU G CLEU G CLEU G CLEU G CLEU G CLEU G CVAL G VAL G	728 728 728 728 728 728 728 728 729 729 729 729 729 729 729 729 730 730 730 730 730 731 731 731 731 731 731 731 731 731 731	44.431 44.036 44.936 45.629 46.750 48.094 46.684 44.221 43.030 44.958 44.410 45.146 44.943 45.810 43.711 43.823 45.888 44.379 45.418 43.172 41.999 41.543 44.247 44.775 45.818 46.174 45.183 45.812 44.812 47.641 47.523 48.711 48.870	73.397 75.551 76.142 77.342 78.040 77.459 79.521 76.547 76.852 76.569 76.873 76.010 76.434 76.543 76.769 77.062 76.929 78.327 78.898 78.112 80.273 80.230 78.863 80.919 82.127 80.165 80.814 80.013 80.029 79.365 81.449 81.031 82.129 79.981 80.082 78.821	49.595 48.999 49.998 49.760 50.121 49.760 51.289 51.260 52.406 53.753 54.768 56.180 57.968 54.563 54.565 54.565 54.565 55.676 56.596 57.392 58.649 59.815 60.158 56.596 57.392 58.649 59.815 60.158 56.590	1.00 1 1.00 3 1.00 2 1.00 2 1.00 2 1.00 2 1.00 2 1.00 2 1.00 2 1.00 3 1.00 3 1.00 3 1.00 2 1.00 3 1.00 3 1.00 3 1.00 3 1.00 3 1.00 1 1.00 1 1.00 1	4.39 4.39 4.39 4.38 7.30 8.87	8766666876666767687666687666668766
MOTA	14754	N	VAL G	732	47.523	79.981	55.905	1.00 2	3.13	7
MOTA	14756	СВ	VAL G	732	48.870	78.821	54.249		8.02	6
MOTA MOTA	14757 14758	CG2	VAL G	732 732	49.744 49.466	79.112 77.715	53.040 55.108	1.00 1	7.58	6
MOTA MOTA	14759 14760	C O	VAL G VAL G		48.684 49.691	81.317 81.988	54.187 54.011	1.00 2 1.00 2		6 8
ATOM	14761	N	CYS G	733	47.528	81.629	53.631	1.00 2	9.02	7
ATOM	14762	CA		733	47.435	82.778	52.755	1.00 3		6
ATOM ATOM	14763 14764	CB SG	CYS G CYS G		46.038 44.897	83.382 82.520	52.829 51.784	1.00 3 1.00 3		6 16
MOTA	14765	С	CYS G	733	48.479	83.856	53.020	1.00 3		6
MOTA MOTA	14766 14767	N O	CYS G GLU G		49.531 48.180	83.876 84.733	52.383 53.975	1.00 3		8 7
ATOM	14768	CA	GLU G		49.028	85.864	54.357	1.00 1		6
MOTA	14769	CB	GLU G	734	48.860	86.141	55.846	1.00 5	6.42	6
ATOM ATOM	$14770 \\ 14771$	CG CD	GLU G GLU G		49.561 49.045	87.391 87.879	56.299 57.625	1.00 6 1.00 6		6 6
ATOM	14772	OE1		734	47.849	88.241	57.691	1.00 6		8
MOTA	14773	OE2	GLU G		49.828	87.895	58.598	1.00 6		8
MOTA MOTA	$14774 \\ 14775$	C O	GLU G GLU G		50.499 50.974	85.746 86.402	54.023 53.116	1.00 1		6 8
ATOM	T=117	J	250 6	, , , =	50.574	00.402	55.110	1.00 1	,	Ü

ATOM	14776	N	ALA G	735	51.218	84.918	54.766	1.00 19.50	7
MOTA	14777	CA	ALA G	735	52.630	84.731	54.524	1.00 18.84	6
MOTA	14778	CB	ALA G	735	53.089	83.451	55.136	1.00 52.86	6
MOTA	14779	С		735	52.867	84.698	53.040	1.00 19.82	6
MOTA	14780	0		735	53.674	85.471	52.544	1.00 21.91	8
MOTA	14781	N		736	52.147	83.811	52.341	1.00 19.80	7
MOTA	14782	CA	PHE G	736	52.236	83.618	50.865	1.00 19.91	6
MOTA	14783	CB	PHE G	736	51.409	82.416	50.394	1.00 39.31	6
MOTA	14784	CG	PHE G	736	51.977	81.077	50.761	1.00 41.46	6
MOTA	14785	CD1	PHE G	736	52.558	80.850	52.013	1.00 43.08	6 6
MOTA	14786	CD2		736	51.850	80.012	49.881	1.00 41.14 1.00 43.64	6
MOTA	14787	CE1		736	52.998 52.280	79.575 78.749	52.384 50.236	1.00 43.04	6
MOTA	14788	CE2		736 736	52.856	78.527	51.494	1.00 42.43	6
MOTA	14789 14790	CZ C	PHE G	736	51.667	84.793	50.117	1.00 42.55	6
ATOM	14791	0		736	52.102	85.119	49.028	1.00 18.17	8
ATOM ATOM	14791	N		737	50.662	85.403	50.721	1.00 19.99	7
ATOM	14793	CA	ASN G		49.949	86.514	50.131	1.00 22.37	6
ATOM	14794	CB		737	50.877	87.656	49.691	1.00 28.87	6
ATOM	14795	CG	ASN G	737	50.097	88.878	49.168	1.00 30.91	6
ATOM	14796	OD1	ASN G	737	49.308	88.769	48.218	1.00 31.45	8
ATOM	14797	ND2	ASN G	737	50.309	90.035	49.793	1.00 30.32	7
ATOM	14798	С		737	49.277	85.924	48.920	1.00 22.93	6
ATOM	14799	0	ASN G	737	49.951	85.516	47.972	1.00 23.26	8
ATOM	14800	N	ALA G	738	47.949	85.881	48.946	1.00 41.86	7
MOTA	14801	CA	ALA G	738	47.236	85.321	47.826	1.00 42.97	6
ATOM	14802	CB	ALA G	738	47.570	83.841	47.724	1.00 39.26	6
MOTA	14803	C	ALA G	738	45.747	85.480	47.934	1.00 43.00	6
MOTA	14804	0	ALA G	738	45.103	84.559	48.379	1.00 44.08	8 7
MOTA	14805	N	ASP G		45.160 43.705	86.603 86.612	47.547 47.670	1.00 25.53 1.00 26.98	6
MOTA	14806	CA	ASP G ASP G	739 739	43.703	88.033	47.761	1.00 20.38	6
ATOM ATOM	14807 14808	CB CG	ASP G	739	42.968	88.730	46.433	1.00 31.96	6
ATOM	14809	OD1	ASP G	739	43.985	89.271	45.959	1.00 34.21	8
ATOM	14810	OD2	ASP G	739	41.854	88.748	45.870	1.00 29.43	8
ATOM	14811	C		739	43.133	85.797	46.517	1.00 27.24	6
ATOM	14812	0	ASP G	739	43.441	86.016	45.348	1.00 27.57	8
ATOM	14813	N	PHE G	740	42.326	84.813	46.876	1.00 27.06	7
MOTA	14814	CA		740	41.742	83.926	45.906	1.00 26.36	6
MOTA	14815	CB	PHE G		40.870	82.885	46.610	1.00 15.95	6
ATOM	14816	CG	PHE G		41.599	82.076	47.651	1.00 13.87	6
ATOM	14817	CD1			41.584	82.459	48.977	1.00 13.87 1.00 13.87	6
MOTA	14818	CD2	PHE G		42.279 42.230	80.927 81.722	47.306 49.932	1.00 13.87	6 6
MOTA	14819 14820	CE1 CE2	PHE G PHE G		42.230	80.193	48.259	1.00 13.87	6
MOTA MOTA	14820	CE2	PHE G		42.898	80.591	49.579	1.00 13.87	6
ATOM	14822	C	PHE G		40.919	84.624	44.848	1.00 27.47	6
MOTA	14823	Ö	PHE G		39.696	84.558	44.886	1.00 28.22	8
ATOM	14824	Ň	ASP G		41.567	85.289	43.900	1.00 13.87	7
ATOM	14825	CA	ASP G		40.804	85.938	42.848	1.00 13.87	6
ATOM	14826	СВ	ASP G		40.612	87.429	43.122	1.00 59.38	6
ATOM	14827	CG	ASP G	741	41.897	88.196	43.102	1.00 63.10	6
ATOM	14828	OD1			42.910	87.623	42.651	1.00 65.86	8
ATOM	14829	OD2	ASP G		41.883	89.375	43.530	1.00 64.67	8
ATOM	14830	C	ASP G		41.446	85.749	41.503	1.00 13.87	6
ATOM	14831	0	ASP G	/4L	41.435	86.647	40.665	1.00 13.87	8

ATOM ATOM ATOM	14832 14833 14834	N CA C	GLY G GLY G GLY G	742 742	41.990 42.645 44.089	84.552 84.208 83.790	41.306 40.059 40.265	1.00 39.80 1.00 41.21 1.00 41.72	L 6 2 6
ATOM ATOM	14835 14836	O N	GLY G ASP G	742	44.799 44.527	83.499 83.748	39.308 41.516	1.00 41.86	
ATOM	14837	CA		743	45.902	83.382	41.804	1.00 23.48	
MOTA MOTA	14838 14839	CB CG		743 743	46.229 46.325	83.625 85.094	43.276 43.613	1.00 42.73 1.00 44.73	
ATOM	14840	OD1		743	46.874	85.850	42.782	1.00 46.33	
ATOM	14841	OD2	ASP G	743	45.876	85.487	44.713	1.00 44.7	1 8
ATOM	14842	C		743	46.243	81.950	41.447	1.00 22.6	
MOTA MOTA	14843 14844	O N		743 744	45.377 47.526	81.102 81.693	41.346 41.253	1.00 22.59	
ATOM	14845	CA		744	47.992	80.366	40.919	1.00 42.42	
ATOM	14846	СВ		744	48.379	80.290	39.458	1.00 42.22	
MOTA	14847	CG		744	47.269	80.439	38.494	1.00 43.50	
MOTA	14848	CD OF1		744	47.612	79.718	37.221	1.00 45.83	
MOTA MOTA	14849 14850	OE1 NE2		744 744	47.743 47.784	78.498 80.461	37.217 36.135	1.00 45.52 1.00 48.73	
MOTA	14851	C		744	49.221	80.048	41.746	1.00 40.1	
MOTA	14852	0		744	50.001	80.944	42.073	1.00 40.00	
MOTA	14853	N		745	49.396	78.771	42.071	1.00 13.8	
MOTA MOTA	14854 14855	CA CB		745 745	50.539 50.118	78.3 4 3 77.959	42.844 44.264	1.00 13.8° 1.00 14.30	
ATOM	14856	CG		745	50.036	79.178	45.179	1.00 14.30	
MOTA	14857	SD		745	49.811	78.869	46.948	1.00 16.68	
MOTA	14858	CE		745	47.967	79.149	47.112	1.00 14.30	
MOTA MOTA	14859 14860	C O		745 745	51.164 50.503	77.182 76.535	42.134 41.336	1.00 13.8° 1.00 13.8°	
ATOM	14861	N	ALA G		50.503	76.333	41.336	1.00 13.8	
ATOM	14862	CA		746	53.153	75.832	41.780	1.00 18.43	
MOTA	14863	СВ		746	54.607	76.155	41.638	1.00 13.8	
MOTA	14864	C		746	52.948	74.658	42.739	1.00 19.55	
MOTA MOTA	14865 14866	N O		746 747	52.069 53.725	74.729 73.583	43.598 42.633	1.00 20.61	
ATOM	14867	CA		747	53.484	72.472	43.551	1.00 30.58	
ATOM	14868	СВ		747	52.094	71.826	43.235	1.00 23.22	
ATOM	14869	CG1		747	52.163	71.029	41.937	1.00 23.65	
ATOM ATOM	14870 14871	CG2 C	VAL G VAL G	747 747	51.630 54.554	70.976 71.379	44.392 43.631	1.00 23.96	
ATOM	14872	0	VAL G		54.245	70.243	43.948	1.00 30.28	
MOTA	14873	N	HIS G	748	55.808	71.726	43.376	1.00 17.28	3 7
ATOM	14874	CA	HIS G		56.924	70.772	43.431	1.00 17.23	
ATOM ATOM	14875 14876	CB CG	HIS G HIS G		58.216 58.360	71.518 72.760	43.722 42.921	1.00 13.87 1.00 13.87	
ATOM	14877		HIS G		58.186	74.059	43.256	1.00 13.8	
ATOM	14878		HIS G		58.592	72.738	41.566	1.00 13.8	7 7
ATOM	14879		HIS G		58.550	73.972	41.097	1.00 13.87	
${f MOTA}$	$14880 \\ 14881$	NE2 C		748 748	58.303 56.798	74.792 69.643	42.103 44.439	1.00 13.87 1.00 18.83	
ATOM	14882	0	HIS G		56.114	69.760	44.439	1.00 20.21	
ATOM	14883	N	VAL G		57.499	68.552	44.170	1.00 25.03	
ATOM	14884	CA	VAL G		57.486	67.395	45.047	1.00 26.18	
MOTA ATOM	14885 14886	CB CC1	VAL G VAL G		56.884 56.855	66.176 64.978	44.325 45.260	1.00 39.04	
ATOM	14887		VAL G VAL G		55.507	66.501	43.809	1.00 38.12	
	,		0						

ATOM ATOM	14888 14889	C O	VAL G 7	49 49	58.918 59.729	67.020 66.755	45.436 44.553	1.00	27.56	6 8
ATOM ATOM	14890 14891	N CD		50 50	59.265 58.541	67.021 67.396	46.746 47.971		22.28 17.65	7 6
ATOM	14892	CA		50	60.645	66.633	47.061		22.70	6
MOTA	14893	CB		50	60.723	66.788	48.589		17.39	6
ATOM	14894	CG		50	59.320	66.656	49.039		17.73	6
MOTA ATOM	14895	C		50 50	60.784 59.841	65.193 64.395	46.566 46.657		23.59 23.30	6 8
ATOM	14896 14897	O N		50 51	61.952	64.866	46.032		58.94	7
MOTA	14898	CA		51	62.143	63.557	45.439		60.91	6
ATOM	14899	CB	LEU G 7	51	62.309	63.747	43.935		52.80	6
MOTA	14900	CG		51	62.109	62.554	43.016		55.13	6
MOTA	14901	CD1 CD2		51 51	60.636 62.934	62.428 62.751	42.674 41.760		54.73 54.76	6 6
MOTA MOTA	14902 14903	CD2		51 51	63.302	62.731	45.959		61.93	6
ATOM	14904	Ô		51	63.539	61.626	45.458		63.68	8
MOTA	14905	\mathbf{N}		52	64.025	63.218	46.957		43.89	7
ATOM	14906	CA		52	65.171	62.476	47.479		42.39	6
MOTA	14907	CB		52 52	66.460 66.202	63.167 64.486	47.028 46.543		31.08 28.73	6 8
ATOM ATOM	14908 14909	OG C		52 52	65.192	62.301	48.991		42.78	6
ATOM	14910	Ô		52	65.996	62.931	49.657		43.79	8
ATOM	14911	N		53	64.321	61.439	49.517		26.53	7
ATOM	14912	CA		53	64.231	61.172	50.959		26.13	6
ATOM ATOM	14913 14914	CB OG		53 53	64.985 65.030	59.903 59.763	51.320 52.721		29.71 27.27	6 8
ATOM	14915	C		53	64.759	62.312	51.804		26.42	6
ATOM	14916	0	SER G 7	53	63.997	62.995	52.471		26.57	8
ATOM	14917	N		54	66.072	62.493	51.793		36.84	7
ATOM	14918 14919	CA CB		54 54	66.709 68.147	63.587 63.775	52.512 51.997		38.63 47.55	6 6
ATOM	14920	CB		54	69.144	64.147	53.061		49.17	6
ATOM	14921	CD1		54	70.449	63.677	52.996		49.98	6
ATOM	14922	CD2		54	68.778	64.934	54.141		50.57	6
ATOM	14923	CE1 CE2		54 54	71.370 69.697	63.978 65.239	53.996 55.147		50.17 51.20	6 6
ATOM ATOM	14924 14925	CEZ		54 54	70.993	63.239 64.756	55.147	1.00	50.82	6
ATOM	14926	C		54	65.887	64.845	52.206		39.18	6
ATOM	14927	0	PHE G 7	54	65.482	65.566	53.114		39.46	8
ATOM	14928	N	ALA G 7		65.625	65.078	50.921		30.87	7
ATOM ATOM	14929 14930	CA CB	ALA G 7 ALA G 7		64.868 64.803	66.243 66.260	50.463 48.943		31.35 58.86	6 6
ATOM	14931	C	ALA G 7		63.465	66.289	51.027		31.07	6
MOTA	14932	0	ALA G 7	55	62.848	67.347	51.106		31.27	8
MOTA	14933	N	GLN G 7		62.958	65.128	51.404		24.89	7
ATOM	14934 14935	CA CB	GLN G 7 GLN G 7		61.625 61.111	65.025 63.598	51.957 51.746		24.71 24.28	6 6
MOTA MOTA	14936	CG	GLN G 7		59.671	63.346	52.145		24.69	6
ATOM	14937	CD	GLN G 7		58.695	64.009	51.208		25.03	6
ATOM	14938	OE1	GLN G 7	56	58.925	64.069	50.002		24.26	8
MOTA	14939	NE2	GLN G 7		57.585	64.492	51.748		26.11 25.94	7 6
MOTA MOTA	14940 14941	C O	GLN G 7 GLN G 7		61.709 60.991	65.358 66.222	53.448 53.953		25.94	8
ATOM	14942	N	ALA G 7		62.608	64.675	54.146		51.89	7
MOTA	14943	CA	ALA G 7		62.765	64.876	55.575	1.00	52.36	6

ATOM ATOM ATOM	14944 14945 14946	CB C O		757 757 757	63.846 63.090 62.688	63.973 66.308 66.799	56.126 55.900 56.944	1.00 3 1.00 3	52.19	6 6 8
MOTA	14947	N		758	63.809	66.990	55.019	1.00		7
ATOM	14948	CA	GLU G '		64.162 65.576	68.373 68.712	55.313 54.805	1.00	39.81 54.36	6 6
ATOM ATOM	14949 14950	CB CG		758	65.834	68.472	53.329		58.27	6
ATOM	14951	CD		758	67.213	68.949	52.906	1.00		6
MOTA	14952	OE1		758	68.185	68.697	53.652	1.00		8
MOTA	14953	OE2		758	67.327	69.566	51.825	1.00		8
ATOM	14954	C		758	63.150	69.372	54.789	1.00		6 8
ATOM ATOM	14955 14956	O N		758 759	63.213 62.206	70.555 68.907	55.092 53.999		39.11	7
ATOM	14957	CA		759	61.202	69.823	53.519		30.09	6
ATOM	14958	СВ		759	60.930	69.593	52.057	1.00	40.69	6
MOTA	14959	С		759	59.956	69.566	54.341	1.00		6
MOTA	14960	0		759	58.867	69.952	53.941	1.00		8 7
ATOM	14961 14962	N		760 760	60.133 59.027	68.901 68.591	55.483 56.389		50.71 51.90	6
ATOM	14962	CA CB		760 760	58.376	67.252	56.015		69.53	6
ATOM	14964	CG		760	59.276	66.045	56.186		73.92	6
ATOM	14965	CD		760	58.511	64.739	56.035		77.04	6
ATOM	14966	NE		760	57.452	64.577	57.029	1.00		7
ATOM	14967	CZ NH1		760 760	56.795 57.103	63.437 62.391	57.206 56.457		82.53 81.99	6 7
ATOM ATOM	14968 14969	NH2		760 760	55.839	63.330	58.119		84.32	7
MOTA	14970	C		760	59.445	68.560	57.870		51.26	6
MOTA	14971	0	ARG G	760	58.798	67.920	58.702		51.59	8
MOTA	14972	N		761	60.533	69.247	58.192		75.37	7
MOTA	14973	CA		761 761	61.030 62.199	69.334 68.341	59.561 59.812		73.54 18.31	6 6
MOTA MOTA	14974 14975	CB CG2		761 761	63.146	68.851	60.906		17.14	6
ATOM	14976	CG1		761	61.624	66.981	60.185		15.32	6
ATOM	14977	CD1	ILE G	761	62.660	66.013	60.667		14.10	6
ATOM	14978	C		761	61.516	70.760	59.688		73.70	6
ATOM	14979	O 1/1		761 762	61.585 61.829	71.333 71.340	60.770 58.547		74.84 33.05	8 7
MOTA MOTA	14980 14981	N CA		762 762	62.296	72.695	58.529		32.66	6
ATOM	14982	CB		762	63.647	72.785	57.828		25.09	6
MOTA	14983	CG	GLN G	762	64.372	71.438	57.709		25.21	6
MOTA	14984	CD	GLN G		65.869	71.568	57.457		24.08	6
MOTA	14985	OE1 NE2			66.326 66.637	72.311 70.834	56.573 58.238		21.31 22.16	8 7
MOTA MOTA	14986 14987	C	GLN G		61.299	73.574	57.821		32.37	6
MOTA	14988	Ö	GLN G		61.004	74.646	58.323		33.51	8
MOTA	14989	N	MET G	763	60.761	73.131	56.678		19.86	7
ATOM	14990	CA	MET G		59.813	73.963	55.929		18.23	6
ATOM	14991	CB		763 763	60.396 60.883	74.329 73.195	54.552 53.672		32.01 33.31	6 6
ATOM ATOM	14992 14993	CG SD		763 763	61.784	73.193	52.207		36.23	16
ATOM	14994	CE		763	60.664	73.538	50.886		36.79	6
MOTA	14995	C	MET G	763	58.347	73.571	55.761		17.68	6
MOTA	14996	0	MET G		57.710	73.994	54.808		16.85	8
MOTA	14997	N Ca	LEU G LEU G		57.800 56.380	72.793 72.400	56.691 56.651		34.27 33.31	7 6
ATOM	14998 14999	CA CB	LEU G		56.139	72.400	57.515		13.87	6
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15000 15001 15002 15003 15004 150005 150006 150007 150010 150010 150011 150013 150013 150013 150013 150020 150021 150022 150023 150022 150023 150030 150040	CD2 C O N CA CB OG C O N CA CCB C CD1 CCD C O N CA CCB C CD1 CCD C O N CA CCB C CD1	LEU G 764 LEU G 764 LEU G 765 SER G 766 ALA G 766 ALA G 766 ALA G 767 HIS G 767 ASN G 768 ASN G 769 LEU G 770 LEU G 771 SER G 771	54.7 78.6 58.6 58.6 58.6 58.6 58.7 58.6 58.7 <t< th=""><th>13 70.768 618 69.952 73.557 74.123 680 75.025 75.205 74.276 695 74.276 75.205 74.276 75.305 74.919 75.305 73.706 75.305 73.918 73.918 73.918 74.376 74.376 74.376 74.376 75.773 74.376 75.775 75.775 75.775 77.004 75.775 77.004 75.775 77.564 75.775 77.564 75.775 77.564 75.775 77.004 75.775 77.564 75.775 77.564 75.775 77.564 75.775 77.38 77.78 78.19 77.78 78.26 77.38 77.38 77.38 77.38 77.38 77.38 77.28 77.38 77.38 77.38</th><th>3 56.908 59.034 59.034 59.034 57.139 58.516 56.992 58.56.992 56.484 58.56.993 58.342 60.384 59.342 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 <t< th=""><th>1.00 57.60 1.00 73.72 1.00 71.62 1.00 29.35 1.00 27.37 1.00 26.30 1.00 26.49 1.00 70.73 1.00 70.99 1.00 27.71 1.00 25.01</th><th>66668766868766687666676768766687687666666</th></t<></th></t<>	13 70.768 618 69.952 73.557 74.123 680 75.025 75.205 74.276 695 74.276 75.205 74.276 75.305 74.919 75.305 73.706 75.305 73.918 73.918 73.918 74.376 74.376 74.376 74.376 75.773 74.376 75.775 75.775 75.775 77.004 75.775 77.004 75.775 77.564 75.775 77.564 75.775 77.564 75.775 77.004 75.775 77.564 75.775 77.564 75.775 77.564 75.775 77.38 77.78 78.19 77.78 78.26 77.38 77.38 77.38 77.38 77.38 77.38 77.28 77.38 77.38 77.38	3 56.908 59.034 59.034 59.034 57.139 58.516 56.992 58.56.992 56.484 58.56.993 58.342 60.384 59.342 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.384 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 60.385 <t< th=""><th>1.00 57.60 1.00 73.72 1.00 71.62 1.00 29.35 1.00 27.37 1.00 26.30 1.00 26.49 1.00 70.73 1.00 70.99 1.00 27.71 1.00 25.01</th><th>66668766868766687666676768766687687666666</th></t<>	1.00 57.60 1.00 73.72 1.00 71.62 1.00 29.35 1.00 27.37 1.00 26.30 1.00 26.49 1.00 70.73 1.00 70.99 1.00 27.71 1.00 25.01	66668766868766687666676768766687687666666
ATOM ATOM	15049 15050	O N	LEU G 770 SER G 771	56.6 55.3	64480.3831682.2140083.1204982.6508282.46	8 63.882 5 63.981 2 64.353 0 65.650 7 66.658 4 63.222	1.00 70.99 1.00 27.71 1.00 25.01 1.00 13.87 1.00 13.87 1.00 26.50	8 7 6 6 8 6
MOTA	15055	0	SER G 771	58.3	329 82.28	8 63.213	1.00 26.59	8

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15056 15057 150059 150060 150061 1500663 1500667 1500667 150077 150077 150077 150077 150077 150077 150088 150088 150088 150099 150099 150099 150099 150099 15100 1	N C C C C C O N C C C O N C C C O N C C C C	GLU G 776 GLU G 776 GLU G 776 GLU G 777 PRO G 777 LEU G 778 LEU G 779 ALA G 779 ALA G 779 ALA G 779	51. 50. 50. 49.	84 84 84 84 84 84 85 86 87 87 84 87 87 87 87 88 87 87 87 87 87	. 0431 . 0431 . 0431 . 0555 . 0555	$\begin{array}{c} 62.258 \\ 62.079 \\ 60.769 \\ 60.769 \\ 60.769 \\ 60.340 \\ 80.998 \\ 20.7428 \\ 60.349 \\ 60.3$	1.001 1.001 1.001 1.001 1.00 1.000 1	69.61 24.15 23.57 26.96 13.87 26.04 13.87 25.66 25.44 21.61 22.03 13.87 13.87 13.87 13.87 13.87 13.87 13.87 13.87 13.87	7666668766876686876687666886876666876668766687
ATOM ATOM ATOM	15103 15104 15105	CA CB C	ALA G 779 ALA G 779 ALA G 779	50. 50. 49.	227 82 592 81 277 82	.541 .050	60.952 61.005 62.088	1.00 1.00 1.00	36.16 14.38 35.75	6 6 6
ATOM ATOM ATOM ATOM	15107 15108 15109 15110	N CA CB CG	LYS G 780 LYS G 780 LYS G 780 LYS G 780 LYS G 780	48. 47. 47.	414 83 492 84 791 85 427 86	.849 .242 .667 5.705	61.862 62.900 63.342 62.292 62.595	1.00 1.00 1.00 1.00	23.74 24.26 29.93 31.31 32.06	7 6 6 6
MOTA	15111	CD	08\ D GIU	40.	040 00	/	04.333	1.00	JZ.00	J

ATOM	15168	С	GLY G	788	33.623	85.461	65.599	1.00 37.38	6
MOTA	15169	0	GLY G	788	32.801	85.588	66.495	1.00 38.29	8
ATOM	15170	N	LEU G		34.926	85.311	65.827	1.00 19.19	7
ATOM	15171	CA	LEU G		35.446	85.256	67.184	1.00 19.28	6
MOTA	15172	CB	LEU G	789	36.948	85.004	67.164	1.00 13.87	6
MOTA	15173 15174	CG CD1	LEU G LEU G	789 789	37.247	83.521 83.204	67.008 67.546	1.00 13.87 1.00 13.87	6 6
${f MOTA}$	15174	CD1 CD2	LEU G LEU G	789 789	38.616 36.217	82.736	67.781	1.00 13.87	6
ATOM	15176	CDZ	LEU G	789	35.135	86.489	68.016	1.00 13.87	6
MOTA	15177	Ö	LEU G	789	35.162	86.459	69.242	1.00 20.25	8
ATOM	15178	N	TYR G	790	34.829	87.584	67.347	1.00 32.63	7
ATOM	15179	CA	TYR G	790	34.511	88.803	68.051	1.00 32.68	6
MOTA	15180	CB	TYR G	790	34.905	89.994	67.155	1.00 20.56	6
MOTA	15181	CG	TYR G	790	34.730	91.382	67.736	1.00 19.81	6
MOTA	15182	CD1	TYR G	790	33.483	92.005	67.727	1.00 22.03	6
MOTA	15183	CE1	TYR G		33.307	93.301	68.204	1.00 22.46	6
MOTA	15184	CD2	TYR G		35.801	92.087	68.243	1.00 17.80	6
MOTA	15185 15186	CE2 CZ	TYR G	790 790	35.635 34.383	93.383 93.993	68.722 68.700	1.00 19.02 1.00 21.73	6
${f MOTA}$	15187	OH	TYR G TYR G	790 790	34.192	95.295	69.150	1.00 21.73 1.00 20.21	6 8
ATOM	15188	C	TYR G		33.010	88.744	68.398	1.00 20.21	6
MOTA	15189	Ö	TYR G	790	32.654	88.781	69.570	1.00 32.10	8
ATOM	15190	N		791	32.139	88.595	67.402	1.00 47.89	7
MOTA	15191	CA	TYR G		30.695	88.537	67.649	1.00 50.05	6
MOTA	15192	CB	TYR G	791	29.949	88.107	66.396	1.00 23.78	6
ATOM	15193	CG	TYR G	791	29.028	89.154	65.827	1.00 21.98	6
MOTA	15194	CD1	TYR G		29.541	90.288	65.219	1.00 21.56	6
ATOM	15195	CE1	TYR G		28.705	91.235	64.624	1.00 21.65	6
MOTA	15196	CD2	TYR G		27.647	88.983	65.842	1.00 19.64	6
ATOM ATOM	15197 15198	CE2 CZ	TYR G TYR G	791 791	26.790 27.331	89.928 91.058	65.251 64.635	1.00 21.32 1.00 21.76	6 6
ATOM	15199	OH	TYR G	791	26.539	92.001	63.995	1.00 21.70	8
MOTA	15200	C	TYR G		30.257	87.609	68.780	1.00 52.37	6
ATOM	15201	Ö		791	29.189	87.799	69.365	1.00 53.82	8
MOTA	15202	N		792	31.053	86.589	69.071	1.00 30.73	7
MOTA	15203	CA	ILE G	792	30.719	85.650	70.138	1.00 32.10	6
MOTA	15204	CB	ILE G	792	31.011	84.186	69.690	1.00100.62	6
ATOM	15205	CG2	ILE G	792	30.773	83.222	70.825	1.00102.54	6
ATOM	15206	CG1	ILE G	792	30.070	83.778	68.556	1.00103.50	6
ATOM ATOM	15207	CD1	ILE G		30.211 31.600	84.589	67.292 71.319	1.00106.63	6 6
ATOM	15208 15209	C 0	ILE G		32.148	86.032 85.177	72.011	1.00 31.30	8
ATOM	15210	N	THR G		31.732	87.336	71.543	1.00 27.56	7
MOTA	15211	CA	THR G		32.596	87.848	72.601	1.00 26.55	6
MOTA	15212	CB	THR G		34.116	87.721	72.218	1.00 21.55	6
MOTA	15213	OG1	THR G	793	34.337	86.565	71.415	1.00 19.90	8
MOTA	15214	CG2	THR G		34.979	87.608	73.438	1.00 20.39	6
MOTA	15215	C	THR G		32.359	89.343	72.814	1.00 27.96	6
ATOM	15216	0	THR G		33.289	90.048	73.193	1.00 28.18	8
MOTA MOTA	15217 15218	N CA	GLN G GLN G		31.161 31.033	89.864 91.296	72.588 72.774	1.00 17.12 1.00 19.48	7 6
ATOM	15219	CB	GLN G		30.623	91.296	71.468	1.00 19.48	6
ATOM	15220	CG	GLN G		31.618	93.025	71.016	1.00 41.22	6
ATOM	15221	CD	GLN G		32.035	93.996	72.140	1.00 42.55	6
ATOM	15222	OE1	GLN G	794	32.500	93.569	73.203	1.00 43.82	8
MOTA	15223	NE2	GLN G	794	31.883	95.307	71.898	1.00 42.28	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15224 152226 152227 152228 152229 152233 152233 152233 152233 152233 152233 152233 152233 152241 152242 152243 152243 152243 152243 152243 152243 152243 152243 152243 152243 152243 152243 152243 152255 152257 152257 152263 152263 152263 152263 152263 152263 15227	CONCABGO NA CONCABONA CONC	VAL G 795 VAL G 795 VAL G 795 VAL G 795 ARG G 796 ARG G 797 ALA G 798 GLU G 799 ALA G 800 ALA G 800 ALA G 800 ALA G 800 ALA G 801 GLY G 801 GLY G 801 GLY G 801 ALA G 802	15.706 16.289 15.296 17.181 16.999 18.034 18.453 18.452 19.437 20.769	99.926 100.246 99.010 100.761 100.395 101.607 102.165 101.688 100.534 102.571 102.198 102.859	73.892 74.354 74.363 75.401 76.559 77.646 77.103 74.681 73.520 75.355 74.710 74.283 73.866 72.458 71.376 70.226 71.438 75.640 76.772 75.151 75.929 75.452 75.316 76.570 75.855 77.285 76.577 75.555 77.285 76.775 77.566 77.574 77.574 77.574 77.574 77.574 77.574 77.574 77.574 77.576 78.366 78.361 88.351 88.356 88.356 88.356 88.356 88.356	1.00 21.63 1.00 20.54 1.00 61.89 1.00 65.70 1.00 13.87 1.00 13.87 1.00 70.25 1.00 72.46 1.00 35.14 1.00 39.99 1.00 38.80 1.00 40.77 1.00 43.43 1.00 48.09 1.00 49.68 1.00 53.16 1.00 42.90 1.00 43.38 1.00 75.68 1.00 79.83 1.00 92.75 1.00 82.83 1.00 76.15 1.00 78.36 1.00 78.35 1.00 78.36 1.00 78.35 1.00 78.36 1.00 13.87 1.00 99.18 1.00 139.56 1.00 64.35 1.00 64.35 1.00 61.70 1.00 61.70	68766668766676776876668876668868766687668876687
MOTA MOTA MOTA	15271 15272 15273	O N CA	GLY G 801 ALA G 802 ALA G 802	18.453 18.452 19.437	100.534 102.571 102.198	82.803 83.756 84.761	1.00 64.35 1.00 61.70 1.00 61.19	8 7 6
ATOM ATOM ATOM ATOM ATOM	15274 15275 15276 15277 15278	CB C N CA	ALA G 802 ALA G 802 ALA G 802 GLY G 803 GLY G 803	18.977 19.633 17.847	102.539 103.292	84.433 86.195 86.930 86.582 87.897	1.00 19.01 1.00 61.23 1.00 61.12 1.00 34.86 1.00 34.00	6 8 7 6
ATOM	15279	C	GLY G 803		101.593	89.135	1.00 33.82	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15280 15281 15282 15283 15284 15285 15286 15287 15288 15289 15290 15291 15292 15293 15294 15295 15296	O N CA CB C O N CA CB C O N CA CB C	GLY G 803 ALA G 804 ALA G 804 ALA G 804 ALA G 804 ALA G 805 ALA G 806	19.181 17.143 17.621 17.369 16.988 16.063 17.478 16.956 17.444 17.356 16.500 18.664 19.260 18.490 19.401 20.503 18.289		89.189 90.142 91.421 92.489 91.828 91.177 92.917 93.378 92.450 94.818 95.701 95.024 96.325 97.435 96.666 96.595 97.023	1.00 32.87 1.00 86.31 1.00 87.01 1.00 16.35 1.00 88.19 1.00 88.92 1.00105.80 1.00107.76 1.00110.30 1.00108.92 1.00109.43 1.00128.12 1.00128.33 1.00147.98 1.00128.39 1.00128.67 1.00 99.16	876668766687 66687
MOTA	15297	CA	ALA G 807	18.302	93.270 93.115	97.421 98.767	1.00100.11 1.00156.30	6 6
ATOM ATOM	15298 15299	CB C	ALA G 807 ALA G 807	17.584 17.735	93.113	96.420	1.00100.11	6
ATOM	15300	Ō	ALA G 807	17.049	91.310	96.814	1.00 99.81	8
ATOM	15301	N	THR G 808	18.028 17.547	92.453 91.546	95.137 94.099	1.00 97.48 1.00 96.79	7 6
MOTA MOTA	15302 15303	CA CB	THR G 808 THR G 808	18.106	90.129	94.314	1.00 50.75	6
MOTA	15304	OG1	THR G 808	19.514	90.201	94.557	1.00 68.21	8
MOTA	15305	CG2	THR G 808	17.861	89.268	93.094	1.00 68.39 1.00 97.04	6 6
ATOM ATOM	15306 15307	C O	THR G 808 THR G 808	16.028 15.467	91.448 90.397	94.130 93.819	1.00 97.04	8
ATOM	15307	N	PRO G 809	15.338	92.540	94.500	1.00109.80	7
ATOM	15309	CD	PRO G 809	15.798	93.915	94.773	1.00123.02	6
ATOM	15310 15311	CA CB	PRO G 809 PRO G 809	13.876 13.473	92.474 93.944	94.548 94.638	1.00110.35 1.00122.89	6 6
ATOM ATOM	15311	CG	PRO G 809	14.589	94.532	95.448	1.00122.67	6
ATOM	15313	C	PRO G 809	13.243	91.761	93.359	1.00110.55	6
MOTA	15314	0	PRO G 809	13.919 11.937	91.423 91.532	92.384 93.459	1.00110.36 1.00 61.22	8 7
MOTA MOTA	15315 15316	N CA	GLU G 810 GLU G 810	11.194	90.872	92.405	1.00 61.22	6
MOTA	15317	CB	GLU G 810	9.689	90.968	92.665	1.00154.34	6
ATOM	15318	CG	GLU G 810	8.836	90.265	91.616	1.00156.04 1.00157.30	6 6
ATOM ATOM	15319 15320	CD OE1	GLU G 810 GLU G 810	7.352 6.925	90.397 90.022	91.889 93.002	1.00157.30	8
ATOM	15321	OE2		6.616	90.869	90.995	1.00158.08	8
MOTA	15322	C	GLU G 810	11.539	91.579	91.113	1.00 61.85	6
MOTA	15323 15324	O NT	GLU G 810 ALA G 811	11.325 12.077	91.042 92.790	90.031 91.246	1.00 61.43 1.00133.90	8 7
ATOM ATOM	15324	N CA	ALA G 811 ALA G 811	12.484		90.106	1.00133.50	6
ATOM	15326	СВ	ALA G 811	13.454	94.685	90.555	1.00 98.09	6
ATOM	15327	C	ALA G 811	13.125 13.016	92.728 93.026	89.032 87.845	1.00134.99 1.00135.02	6 8
MOTA MOTA	15328 15329	N	ALA G 811 ALA G 812	13.796		89.448	1.00133.02	7
MOTA	15330	CA	ALA G 812	14.418	90.738	88.501	1.00141.70	6
MOTA	15331	СВ	ALA G 812	14.892		89.219	1.00 13.87 1.00142.44	6 6
ATOM ATOM	15332 15333	C O	ALA G 812 ALA G 812	13.348 13.531		87.475 86.274	1.00142.44	8
ATOM	15333	N	ALA G 813	12.223	89.877	87.969	1.00135.92	7
ATOM	15335	CA	ALA G 813	11.101	89.506	87.118	1.00136.06	6

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ATOM	15336	СВ	ALA G 813	10.391	88.280	87.687	1.00184.90	6
MOTA	15337	С	ALA G 813	10.128	90.678	87.018	1.00135.37	6
MOTA	15338	0	ALA G 813	9.376	90.794	86.050	1.00135.25	8
MOTA	15339	N	ALA G 814	10.134	91.537	88.033	1.00 90.29	7
ATOM	15340	CA	ALA G 814	9.261	92.695	88.021	1.00 89.49	6
MOTA	15341	CB	ALA G 814	9.516	93.574	89.229	1.00117.54	6
MOTA	15342	С	ALA G 814	9.666	93.405	86.755	1.00 88.89	6
MOTA	15343	Ö	ALA G 814	8.824	93.874	85.994	1.00 89.06	8
MOTA	15344	N	ALA G 815	10.972	93.463	86.524	1.00 78.06	7
MOTA	15345	CA	ALA G 815	11.489	94.095	85.321	1.00 70.00	6
MOTA	15345	CB	ALA G 815	13.009	94.105	85.330	1.00121.63	
	15340							6
ATOM		C	ALA G 815	10.977	93.266	84.155	1.00 77.33	6
MOTA	15348	0	ALA G 815	10.612	93.806	83.110	1.00 77.37	8
MOTA	15349	N	ALA G 816	10.956	91.948	84.347	1.00111.03	7
ATOM	15350	CA	ALA G 816	10.470	91.033	83.321	1.00111.59	6
MOTA	15351	CB	ALA G 816	10.541	89.591	83.813	1.00107.03	6
MOTA	15352	С	ALA G 816	9.030	91.416	83.024	1.00111.47	6
MOTA	15353	0	ALA G 816	8.094	90.840	83.584	1.00111.27	8
ATOM	15354	\mathbf{N}	ALA G 817	8.871	92.401	82.145	1.00157.33	7
MOTA	15355	CA	ALA G 817	7.564	92.912	81.757	1.00157.32	6
MOTA	15356	CB	ALA G 817	7.049	93.865	82.833	1.00 82.47	6
ATOM	15357	С	ALA G 817	7.695	93.645	80.427	1.00157.25	6
ATOM	15358	0	ALA G 817	7.117	93.244	79.417	1.00157.22	8
MOTA	15359	N	ARG G 818	8.467	94.727	80.451	1.00 86.52	7
ATOM	15360	CA	ARG G 818	8.724	95.564	79.283	1.00 86.74	6
ATOM	15361	CB	ARG G 818	7.422	96.180	78.768	1.00118.96	6
ATOM	15362	CG	ARG G 818	6.868	97.250	79.685	1.00120.10	6
ATOM	15363	CD	ARG G 818	5.406	97.536	79.427	1.00121.14	6
ATOM	15364	NE	ARG G 818	4.857	98.381	80.481	1.00122.06	7
ATOM	15365	CZ	ARG G 818	3.562	98.497	80.739	1.00122.04	6
ATOM	15366	NH1	ARG G 818	2.683	97.820	80.016	1.00122.91	7
ATOM	15367	NH2	ARG G 818	3.149	99.279	81.723	1.00121.62	7
ATOM	15368	C	ARG G 818	9.670	96.668	79.758	1.00 86.63	6
ATOM	15369	0	ARG G 818	9.510	97.204	80.858	1.00 86.80	8
MOTA	15370	N	GLY G 819	10.655	97.014	78.938	1.00148.56	7
ATOM	15370	CA	GLY G 819	11.603	98.032	79.349	1.00143.30	6
ATOM	15371	CA	GLY G 819	12.590	97.394	80.310	1.00147.43	6
ATOM	15372	0	GLY G 819	12.708	96.168	80.343	1.00146.34	8
MOTA	15374	N	ALA G 820	13.288 14.273	98.206	81.098	1.00 81.04	7
MOTA	15375	CA	ALA G 820		97.690	82.051	1.00 79.47	6
MOTA	15376	СВ	ALA G 820	13.591	97.257	83.321	1.00 17.11	6
MOTA	15377	C	ALA G 820	15.042	96.515	81.466	1.00 78.95	6
MOTA	15378	0	ALA G 820	14.952	95.398	81.979	1.00 78.58	8
MOTA	15379	N	ALA G 821	15.788	96.768	80.392	1.00150.37	7
MOTA	15380	CA	ALA G 821	16.566	95.723	79.735	1.00149.29	6
MOTA	15381	CB	ALA G 821	16.970	96.154	78.341	1.00 55.90	6
MOTA	15382	C	ALA G 821	17.804	95.375	80.530	1.00148.41	6
ATOM	15383	0	ALA G 821	18.388	96.224	81.202	1.00148.78	8
MOTA	15384	N	ALA G 822	18.207	94.116	80.427	1.00 68.65	7
MOTA	15385	CA	ALA G 822	19.374	93.624	81.136	1.00 67.90	6
MOTA	15386	CB	ALA G 822	19.549	92.125	80.858	1.00 40.68	6
MOTA	15387	С	ALA G 822	20.661	94.403	80.793	1.00 67.30	6
MOTA	15388	0	ALA G 822	21.462	93.997	79.929	1.00 66.87	8
MOTA	15389	N	ALA G 823	20.849	95.523	81.490	1.00 61.01	7
MOTA	15390	CA	ALA G 823	22.018	96.360	81.291	1.00 60.21	6
MOTA	15391	CB	ALA G 823	22.116	96.768	79.831	1.00 39.99	6

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MOTA	15392	C	ALA G 823	21.994	97.600	82.178	1.00 60.11	6
MOTA	15393	0	ALA G 823	21.244	98.537	81.911	1.00 60.12	8
MOTA	15394	N	ALA G 824	22.817	97.578	83.229	1.00 84.93	7
ATOM	15395	CA	ALA G 824	22.979	98.674	84.190	1.00 84.56	6
MOTA	15396	CB	ALA G 824	22.618	100.002	83.537	1.00 18.43	6
MOTA	15397	С	ALA G 824	22.254	98.533	85.540	1.00 84.27	6
MOTA	15398	0	ALA G 824	22.837	98.021	86.493	1.00 83.62	8
MOTA	15399	N	ALA G 825	21.007	99.004	85.619	1.00 81.05	7
MOTA	15400	CA	ALA G 825	20.191	98.957	86.844	1.00 81.12	6
MOTA	15401	CB	ALA G 825	18.902	98.205	86.575	1.00 39.65	6
			ALA G 825	20.899	98.351		1.00 39.03	6
ATOM	15402	C				88.054		
ATOM	15403	0	ALA G 825	21.201	97.161	88.064	1.00 82.09	8
MOTA	15404	N	ALA G 826	21.131	99.174	89.078	1.00104.37	7
MOTA	15405	CA	ALA G 826	21.832	98.766	90.306	1.00104.98	6
MOTA	15406	CB	ALA G 826	22.309	100.029	91.069	1.00 32.21	6
MOTA	15407	С	ALA G 826	21.081	97.834	91.275	1.00105.32	6
MOTA	15408	0	ALA G 826	19.953	97.413	91.016	1.00105.35	8
MOTA	15409	N	ALA G 827	21.745	97.514	92.387	1.00126.68	7
ATOM	15410	CA	ALA G 827	21.203	96.661	93.450	1.00127.15	6
ATOM	15411	CB	ALA G 827	20.952	95.238	92.936	1.00 28.33	6
ATOM	15412	С	ALA G 827	22.205	96.635	94.605	1.00127.62	6
ATOM	15413	Ō	ALA G 827	21.866	96.940	95.748	1.00127.49	8
ATOM	15414	Ň	VAL G 828	23.444	96.281	94.280	1.00 96.70	7
ATOM	15415	CA	VAL G 828	24.553	96.198	95.238	1.00 96.39	6
ATOM	15416	CB	VAL G 828	24.369	95.006	96.237	1.00123.09	6
ATOM	15417	CG1	VAL G 828	25.706	94.627	96.861	1.00123.05	6
ATOM	15418	CG2	VAL G 828	23.385	95.386	97.343	1.00122.31	6
ATOM	15419	C	VAL G 828	25.828	95.976	94.417	1.00 95.34	6
ATOM	15420	0	VAL G 828	26.952	96.125	94.917	1.00 94.78	8
ATOM	15421	N	ALA G 829	25.617	95.623	93.147	1.00146.54	7
ATOM	15421	CA	ALA G 829	26.684	95.355	92.179	1.00145.16	6
ATOM	15423	CB	ALA G 829	27.205	93.921	92.351	1.00145.10	6
ATOM	15423	СР	ALA G 829	26.172	95.560	90.747	1.00133.23	6
			ALA G 829	26.959			1.00143.43	8
ATOM	15425	O			95.637	89.805		
MOTA	15426	N	ALA G 830	24.849	95.630	90.603	1.00 63.04	7
ATOM	15427	CA	ALA G 830	24.182	95.836	89.314	1.00 60.98	6
ATOM	15428	CB	ALA G 830	24.969	96.865	88.478	1.00 87.55	6
ATOM	15429	C	ALA G 830	23.910	94.573	88.479	1.00 59.04	6
ATOM	15430	0	ALA G 830	24.208	93.451	88.905	1.00 57.54	8
MOTA	15431	N	GLY G 831	23.314	94.789	87.300	1.00 46.63	7
MOTA	15432	CA	GLY G 831	22.996	93.722	86.361	1.00 46.34	6
MOTA	15433	C	GLY G 831	21.617	93.092	86.496	1.00 46.26	6
MOTA	15434	0	GLY G 831	21.237	92.687	87.595	1.00 47.43	8
MOTA	15435	N	ARG G 832	20.857	93.008	85.399	1.00 60.75	7
MOTA	15436	CA	ARG G 832	19.529	92.387	85.446	1.00 59.25	6
ATOM	15437	СВ	ARG G 832	18.550	92.991	84.436	1.00 55.85	6
ATOM	15438	CG	ARG G 832	17.227	92.215	84.437	1.00 56.28	6
ATOM	15439	$^{\mathrm{CD}}$	ARG G 832	16.214	92.675	83.405	1.00 58.16	6
ATOM	15440	NE	ARG G 832	15.203	91.637	83.192	1.00 59.37	7
ATOM	15441	CZ	ARG G 832	14.202	91.710	82.316	1.00 59.76	6
ATOM	15442	NH1		14.044	92.785	81.548	1.00 60.31	7
MOTA	15443	NH2		13.372	90.685	82.191	1.00 58.80	7
MOTA	15444	С	ARG G 832	19.629	90.902	85.164	1.00 58.48	6
MOTA	15445	0	ARG G 832	18.679	90.151	85.385	1.00 58.45	8
ATOM	15446	N	ALA G 833	20.775	90.483	84.642	1.00 43.69	7
MOTA	15447	CA	ALA G 833	20.994	89.077	84.371	1.00 41.44	6

ATOM 15468 CG2 VAL G 836 ATOM 15469 C VAL G 836 ATOM 15469 C VAL G 836 ATOM 15469 C VAL G 836 ATOM 15470 O VAL G 836 ATOM 15471 N GLY G 837 ATOM 15471 N GLY G 837 ATOM 15472 CA GLY G 837 ATOM 15472 CA GLY G 837 ATOM 15473 C GLY G 837 ATOM 15474 O GLY G 837 ATOM 15475 N ALA G 838 ATOM 15475 N ALA G 838 ATOM 15476 CA ALA G 838 ATOM 15477 CB ALA G 838 ATOM 15477 CB ALA G 838 ATOM 15478 C ALA G 838 ATOM 15478 C ALA G 838 ATOM 15479 O ALA G 838 ATOM 15480 N ALA G 838 ATOM 15480 N ALA G 839 ATOM 15481 CA ALA G 839 ATOM 15481 CA ALA G 839 ATOM 15482 CB ALA G 839 ATOM 15483 C ALA G 839 ATOM 15484 C ALA G 839 ATOM 15484 C ALA G 839 ATOM 15484 C ALA G 839 ATOM 15485 N ALA G 839 ATOM 15486 CA ALA G 839 ATOM 15487 C ALA G 839 ATOM 15488 C ALA G 839 ATOM 15488 C ALA G 839 ATOM 15489 O ALA G 840 ATOM 15489 C ALA G 840 ATOM 15489 O ALA G 841 ATOM 15489 C ALA G 842 ATOM 15490 C ALA G 841 ATOM 15490 C ALA G 841 ATOM 15490 C ALA G 841 ATOM 15490 C ALA G 840 ATOM 15490 C ALA G 841 ATOM 15490 C ALA G 842 ATOM 15490	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15448 15449 15450 15451 15452 15453 15454 15455 15456 15457 15460 15461 15463 15464 15465 15465	CB CONCACBOG1 CG2 CONCACBOG CONCACBOG	ALA G 833 ALA G 833 ALA G 833 THR G 834 THR G 835 SER G 835 VAL G 836 VAL G 836	22.145 21.308 22.473 20.238 20.220 19.588 19.784 20.233 19.193 19.089 18.425 17.391 16.744 15.703 18.174 18.355 18.660 19.446 19.782	88.879 88.453 88.189 88.313 87.681 88.563 89.957 88.244 86.610 85.564 86.936 86.082 86.803 86.062 84.848 83.918 84.838 83.702	83.418 85.717 86.047 86.507 87.833 88.955 88.690 90.275 87.488 88.138 86.443 85.870 84.666 84.030 85.430 86.212 84.195 83.749 82.206	1.00 44.74 1.00 40.98 1.00 40.76 1.00 65.98 1.00 64.42 1.00 45.26 1.00 44.58 1.00 63.85 1.00 63.49 1.00 56.29 1.00 55.86 1.00 38.75 1.00 37.23 1.00 55.42 1.00 55.90 1.00 57.23 1.00 56.28 1.00 16.17 1.00 15.03	66876686687668687666
ATOM 15471 N GLY G 837 20.855 83.026 85.638 1.00 36.53 7 ATOM 15472 CA GLY G 837 22.060 83.057 86.450 1.00 38.40 6 ATOM 15473 C GLY G 837 22.513 81.641 86.730 1.00 40.39 6 ATOM 15474 O GLY G 837 22.492 81.195 87.878 1.00 39.49 8 ATOM 15475 N ALA G 838 22.932 80.957 85.661 1.00 85.86 7 ATOM 15476 CA ALA G 838 23.381 79.554 85.657 1.00 88.47 6 ATOM 15477 CB ALA G 838 23.381 79.554 85.657 1.00 88.47 6 ATOM 15478 C ALA G 838 24.315 79.048 86.766 1.00 13.87 6 ATOM 15479 O ALA G 838 24.182 79.431 87.929 1.00 92.10 8 ATOM 15480 N ALA G 839 25.249 78.168 86.409 1.00 80.78 7 ATOM 15482 CB ALA G 839 25.361 76.824 88.413 1.00 84.32 6 ATOM 15483 C ALA G 839 25.361 76.824 88.413 1.00 81.40 6 ATOM 15484 O ALA G 839 25.361 76.824 88.413 1.00 87.11 6 ATOM 15485 N ALA G 839 28.266 77.201 86.328 1.00 88.40 8 ATOM 15486 CA ALA G 840 27.044 75.397 86.915 1.00114.09 7 ATOM 15488 C ALA G 840 27.993 74.400 86.415 1.00115.95 6 ATOM 15488 C ALA G 840 27.993 74.400 86.415 1.00115.95 6 ATOM 15489 O ALA G 840 29.378 74.530 87.076 1.00115.95 6 ATOM 15490 N ALA G 840 29.378 74.530 87.076 1.00115.83 6 ATOM 15490 N ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15491 CA ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15492 CB ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15493 C ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15490 N ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15495 N ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15496 CA ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15497 CB ALA G 842 33.542 72.323 87.682 1.00167.88 7 ATOM 15496 CA ALA G 842 33.542 72.323 87.682 1.00167.88 7 ATOM 15497 CB ALA G 842 35.566 69.514 86.982 1.00167.94 6 ATOM 15499 C ALA G 842 35.566 69.514 86.982 1.00167.91 6	ATOM	15469	С	VAL G 836 VAL G 836	20.749	83.800	84.564	1.00 13.87 1.00 58.01	6 6
ATOM 15475 N ALA G 838 22.932 80.957 85.661 1.00 85.86 7 ATOM 15476 CA ALA G 838 23.381 79.554 85.657 1.00 88.47 6 ATOM 15477 CB ALA G 838 23.980 79.225 84.286 1.00 13.87 6 ATOM 15478 C ALA G 838 24.315 79.048 86.766 1.00 91.15 6 ATOM 15479 O ALA G 838 24.315 79.048 86.766 1.00 91.15 6 ATOM 15480 N ALA G 839 25.249 78.168 86.409 1.00 80.78 7 ATOM 15481 CA ALA G 839 25.249 78.168 86.409 1.00 80.78 7 ATOM 15482 CB ALA G 839 25.361 76.824 88.413 1.00 84.32 6 ATOM 15483 C ALA G 839 27.252 76.711 86.824 1.00 87.11 6 ATOM 15484 O ALA G 839 28.266 77.201 86.328 1.00 88.40 8 ATOM 15485 N ALA G 840 27.044 75.397 86.915 1.00114.09 7 ATOM 15486 CA ALA G 840 27.993 74.400 86.415 1.00115.95 6 ATOM 15488 C ALA G 840 29.378 74.501 84.878 1.00 13.87 6 ATOM 15488 C ALA G 840 29.378 74.501 84.878 1.00 13.87 6 ATOM 15489 O ALA G 840 29.378 74.501 84.878 1.00 13.87 6 ATOM 15490 N ALA G 841 30.056 73.401 87.275 1.00186.87 7 ATOM 15491 CA ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15492 CB ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15494 O ALA G 841 31.374 73.398 87.918 1.00188.21 6 ATOM 15495 N ALA G 841 31.374 73.398 87.918 1.00188.21 6 ATOM 15496 CA ALA G 841 32.418 72.885 85.811 1.00188.43 8 ATOM 15495 N ALA G 841 32.418 72.885 85.811 1.00188.43 8 ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.94 6 ATOM 15498 C ALA G 842 34.689 71.753 86.982 1.00167.94 6 ATOM 15498 C ALA G 842 34.689 71.753 86.982 1.00167.91 6 ATOM 15498 C ALA G 842 34.689 71.753 86.982 1.00167.91 6 ATOM 15498 C ALA G 842 34.689 71.753 86.982 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	ATOM ATOM ATOM	15471 15472 15473	N CA C	GLY G 837 GLY G 837 GLY G 837	20.855 22.060 22.513	83.026 83.057 81.641	85.638 86.450 86.730	1.00 38.40 1.00 40.39	6 6
ATOM 15478 C ALA G 838 24.315 79.048 86.766 1.00 91.15 6 ATOM 15479 O ALA G 838 24.182 79.431 87.929 1.00 92.10 8 ATOM 15480 N ALA G 839 25.249 78.168 86.409 1.00 80.78 7 ATOM 15481 CA ALA G 839 26.157 77.606 87.403 1.00 84.32 6 ATOM 15482 CB ALA G 839 27.252 76.711 86.824 1.00 87.11 6 ATOM 15483 C ALA G 839 27.252 76.711 86.824 1.00 87.11 6 ATOM 15485 N ALA G 839 28.266 77.201 86.328 1.00 88.40 8 ATOM 15485 N ALA G 840 27.044 75.397 86.915 1.00114.09 7 ATOM 15486 CA ALA G 840 27.993 74.400 86.415 1.00115.95 6 ATOM 15487 CB ALA G 840 28.102 74.501 84.878 1.00 13.87 6 ATOM 15488 C ALA G 840 29.378 74.530 87.076 1.00117.83 6 ATOM 15489 O ALA G 840 29.378 74.530 87.076 1.00117.83 6 ATOM 15490 N ALA G 841 30.056 73.401 87.275 1.00186.87 7 ATOM 15491 CA ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15492 CB ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15493 C ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15494 O ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.94 6 ATOM 15496 CA ALA G 842 33.542 72.323 87.682 1.00167.94 6 ATOM 15497 CB ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15498 C ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	MOTA MOTA	15475 15476	N CA	ALA G 838 ALA G 838	22.932 23.381	80.957 79.554	85.661 85.657	1.00 85.86 1.00 88.47	7 6
ATOM 15481 CA ALA G 839 26.157 77.606 87.403 1.00 84.32 6 ATOM 15482 CB ALA G 839 25.361 76.824 88.413 1.00 81.40 6 ATOM 15483 C ALA G 839 27.252 76.711 86.824 1.00 87.11 6 ATOM 15484 O ALA G 839 28.266 77.201 86.328 1.00 88.40 8 ATOM 15485 N ALA G 840 27.044 75.397 86.915 1.00114.09 7 ATOM 15486 CA ALA G 840 27.993 74.400 86.415 1.00115.95 6 ATOM 15487 CB ALA G 840 28.102 74.501 84.878 1.00 13.87 6 ATOM 15488 C ALA G 840 29.378 74.530 87.076 1.00117.83 6 ATOM 15489 O ALA G 840 29.822 75.631 87.404 1.00118.76 8 ATOM 15490 N ALA G 841 30.056 73.401 87.275 1.00186.87 7 ATOM 15491 CA ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15492 CB ALA G 841 31.305 72.612 89.230 1.00 86.19 6 ATOM 15493 C ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15494 O ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.94 6 ATOM 15496 CA ALA G 842 33.5985 72.119 87.696 1.00 82.15 6 ATOM 15498 C ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	ATOM (15478 15479	C 0	ALA G 838 ALA G 838	24.315 24.182	79.048 79.431	86.766 87.929	1.00 91.15 1.00 92.10	6 8
ATOM 15484 O ALA G 839 28.266 77.201 86.328 1.00 88.40 8 ATOM 15485 N ALA G 840 27.044 75.397 86.915 1.00114.09 7 ATOM 15486 CA ALA G 840 27.993 74.400 86.415 1.00115.95 6 ATOM 15487 CB ALA G 840 28.102 74.501 84.878 1.00 13.87 6 ATOM 15488 C ALA G 840 29.378 74.530 87.076 1.00117.83 6 ATOM 15489 O ALA G 840 29.822 75.631 87.404 1.00118.76 8 ATOM 15490 N ALA G 841 30.056 73.401 87.275 1.00186.87 7 ATOM 15491 CA ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15492 CB ALA G 841 31.305 72.612 89.230 1.00 86.19 6 ATOM 15493 C ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15494 O ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.88 7 ATOM 15496 CA ALA G 842 33.542 72.323 87.682 1.00167.94 6 ATOM 15497 CB ALA G 842 34.689 71.753 86.978 1.00167.94 6 ATOM 15498 C ALA G 842 35.985 72.119 87.696 1.00 82.15 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00167.91 6	ATOM ATOM	15481 15482	CA CB	ALA G 839 ALA G 839	26.157 25.361	77.606 76.824	87.403 88.413	1.00 84.32 1.00 81.40	6 6
ATOM 15487 CB ALA G 840 29.378 74.501 84.878 1.00 13.87 6 ATOM 15488 C ALA G 840 29.378 74.530 87.076 1.00117.83 6 ATOM 15489 O ALA G 840 29.822 75.631 87.404 1.00118.76 8 ATOM 15490 N ALA G 841 30.056 73.401 87.275 1.00186.87 7 ATOM 15491 CA ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15492 CB ALA G 841 31.305 72.612 89.230 1.00 86.19 6 ATOM 15493 C ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15494 O ALA G 841 32.418 72.885 85.811 1.00188.43 8 ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.88 7 ATOM 15496 CA ALA G 842 34.689 71.753 86.978 1.00167.94 6 ATOM 15497 CB ALA G 842 34.689 71.753 86.978 1.00167.94 6 ATOM 15498 C ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	ATOM ATOM	15484 15485	O N	ALA G 839 ALA G 840	28.266 27.044	77.201 75.397	86.328 86.915	1.00 88.40 1.00114.09	8 7
ATOM 15490 N ALA G 841 30.056 73.401 87.275 1.00186.87 7 ATOM 15491 CA ALA G 841 31.374 73.398 87.918 1.00187.60 6 ATOM 15492 CB ALA G 841 31.305 72.612 89.230 1.00 86.19 6 ATOM 15493 C ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15494 O ALA G 841 32.418 72.885 85.811 1.00188.43 8 ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.88 7 ATOM 15496 CA ALA G 842 34.689 71.753 86.978 1.00167.94 6 ATOM 15497 CB ALA G 842 35.985 72.119 87.696 1.00 82.15 6 ATOM 15498 C ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	ATOM	15487 15488	CB	ALA G 840 ALA G 840	28.102 29.378	74.501 74.530	84.878 87.076	1.00 13.87 1.00117.83	6 6
ATOM 15492 CB ALA G 841 31.305 72.612 89.230 1.00 86.19 6 ATOM 15493 C ALA G 841 32.496 72.841 87.039 1.00188.21 6 ATOM 15494 O ALA G 841 32.418 72.885 85.811 1.00188.43 8 ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.88 7 ATOM 15496 CA ALA G 842 34.689 71.753 86.978 1.00167.94 6 ATOM 15497 CB ALA G 842 35.985 72.119 87.696 1.00 82.15 6 ATOM 15498 C ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	MOTA	15490	N	ALA G 841	30.056	73.401	87.275	1.00186.87 1.00187.60	7 6
ATOM 15495 N ALA G 842 33.542 72.323 87.682 1.00167.88 7 ATOM 15496 CA ALA G 842 34.689 71.753 86.978 1.00167.94 6 ATOM 15497 CB ALA G 842 35.985 72.119 87.696 1.00 82.15 6 ATOM 15498 C ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	ATOM ATOM	15492 15493	CB C	ALA G 841 ALA G 841	32.496	72.841	87.039	1.00188.21	6
ATOM 15498 C ALA G 842 34.575 70.237 86.853 1.00167.91 6 ATOM 15499 O ALA G 842 35.566 69.514 86.982 1.00168.11 8	ATOM ATOM	15495 15496	N CA	ALA G 842 ALA G 842	33.542 34.689	72.323 71.753	87.682 86.978	1.00167.88 1.00167.94	7 6 6
	MOTA MOTA	15498 15499	C 0	ALA G 842 ALA G 842	34.575 35.566	70.237 69.514	86.853 86.982	1.00167.91 1.00168.11	6 8

ATOM	15504	0	ALA G 84	3 33.	176 67	200 84	1.322	1.00120.	87 8
ATOM	15505	N	ALA G 84					1.00120.	
	15506		ALA G 84					1.00208.	
ATOM		CA							
ATOM	15507	CB	ALA G 84					1.00 47.	
ATOM	15508	C	ALA G 84					1.00208.	
MOTA	15509	0	ALA G 84					1.00208.	
ATOM	15510	N	ALA G 84					1.00194.	
ATOM	15511	CA	ALA G 84					1.00192.	
MOTA	15512	CB	ALA G 84					1.00131.	
MOTA	15513	С	ALA G 84					1.00190.	
ATOM	15514	0	ALA G 84					1.00192.	
MOTA	15515	N	PRO G 84					1.00 50.	
MOTA	15516	CD	PRO G 84					1.00103.	
MOTA	15517	CA	PRO G 84					1.00 48.	
ATOM	15518	CB	PRO G 84					1.00102.	
ATOM	15519	CG	PRO G 84					1.00103.	
MOTA	15520	С	PRO G 84	5 28.	568 74.	806 80	.770	1.00 46.	
MOTA	15521	0	PRO G 84	5 28.	186 75.	603 79	.909	1.00 45.	
ATOM	15522	N	ALA G 84	7 28.	438 73.	485 80	.665	1.00 85.	27 7
ATOM	15523	CA	ALA G 84	7 27.	828 72.	823 79	.517	1.00 82.	84 6
ATOM	15524	CB	ALA G 84	7 28.	130 71.	327 79	.563	1.00 13.	87 6
ATOM	15525	С	ALA G 84	7 26.3	323 73.	048 79	.496	1.00 81.	47 6
ATOM	15526	0	ALA G 84	7 25.	632 72.	617 78	3.576	1.00 81.	
ATOM	15527	N	ALA G 84	3 25.	822 73.	723 80	.521	1.00 47.	32 7
MOTA	15528	CA	ALA G 84					1.00 46.	22 6
ATOM	15529	СВ	ALA G 84					1.00115.	
MOTA	15530	С	ALA G 84					1.00 45.	
ATOM	15531	0	ALA G 84					1.00 44.	
ATOM	15532	N	ALA G 84					1.00 78.	
MOTA	15533	CA	ALA G 84					1.00 76.	
MOTA	15534	СВ	ALA G 84					1.00 92.	
MOTA	15535	С	ALA G 84					1.00 75.	
MOTA	15536	0	ALA G 84					1.00 74.	
MOTA	15537	N	LEU G 85					1.00 56.	
MOTA	15538	CA	LEU G 85					1.00 57.	
MOTA	15539	СВ	LEU G 85					1.00 59.	
MOTA	15540	CG	LEU G 85					1.00 60.	
ATOM	15541	CD1						1.00 60.	
MOTA	15542	CD2	LEU G 85					1.00 60.	
MOTA	15543	C	LEU G 85					1.00 57.	
MOTA	15544	Ō	LEU G 85					1.00 59.	
ATOM	15545	N	LEU G 85					1.00 48.	
MOTA	15546	CA	LEU G 85					1.00 48.	
ATOM	15547	CB	LEU G 85					1.00 43.	
MOTA	15548	CG	LEU G 85					1.00 41.	
ATOM	15549		LEU G 85					1.00 38.	
MOTA	15550	CD2						1.00 39.	
MOTA	15551	C	LEU G 85					1.00 48.	
MOTA	15552	Ŏ	LEU G 85			532 76		1.00 48.	
ATOM	15553	N	ALA G 85					1.00 76. 1.00 76.	
MOTA	15554	CA	ALA G 85					1.00 76.	
ATOM	15555	CB	ALA G 85					1.00114.	
MOTA	15556	C	ALA G 85					1.00 75.	
ATOM	15557	Õ	ALA G 85					1.00 76.	
ATOM	15558	N	VAL G 85					1.00 47.	
ATOM	15559	CA	VAL G 85					1.00 46.	
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ATOM ATOM ATOM ATOM	15560 15561 15562 15563 15564 15565	CG2 C O	VAL G VAL G	853 853 853 853	23.402 23.625 23.925 21.319 20.977 21.212	79.614 80.212 80.503 78.817 79.565 77.492	75.066 73.694 76.145 74.032 73.105 73.980	1.00 27.72 1.00 27.61 1.00 27.86 1.00 47.80 1.00 47.89 1.00 44.35	6 6 6 8 7
ATOM ATOM	15566	N CA	ALA G ALA G		20.623	76.838	72.831	1.00 44.74	6
ATOM	15567	CB	ALA G		20.693	75.338	72.976	1.00 13.87	6
MOTA MOTA	15568 15569	С О	ALA G		19.190 18.928	77.307 78.487	72.875 72.636	1.00 45.80 1.00 46.51	6 8
ATOM	15570	N		855	18.274	76.399	73.207	1.00 34.17	7
ATOM	15571	CA		855	16.848	76.715	73.296	1.00 34.09	6
ATOM	15572	CB		855	16.262	76.104	74.564	1.00 73.08	6
ATOM ATOM	15573 15574	CG CD2	HIS G		16.820 17.886	74.760 74.084	74.900 74.409	1.00 75.47 1.00 76.75	6 6
ATOM	15575			855	16.277	73.956	75.876	1.00 77.24	7
ATOM	15576		HIS G		16.982	72.844	75.973	1.00 78.37	6
ATOM	15577	NE2		855	17.964	72.896	75.092	1.00 78.10	7
ATOM ATOM	15578 15579	C O	HIS G		16.655 16.839	78.231 78.867	73.325 74.369	1.00 34.10 1.00 32.27	6 8
ATOM	15580	N	GLY G		16.309	78.785	72.163	1.00 57.69	7
MOTA	15581	CA	GLY G		16.102	80.216	71.992	1.00 60.89	6
ATOM	15582	C	GLY G		16.225	81.136	73.193	1.00 62.46 1.00 62.26	6 8
ATOM ATOM	15583 15584	O N	GLY G LEU G		15.353 17.310	81.975 81.007	73.412 73.952	1.00 62.26	7
ATOM	15585	CA	LEU G		17.525	81.826	75.141	1.00132.97	6
ATOM	15586	CB.	LEU G		17.232	81.007	76.396	1.00 54.85	6
ATOM	15587	CG CD1	LEU G		16.472	81.751	77.493	1.00 55.64	6 6
MOTA MOTA	15588 15589	CD1 CD2	LEU G LEU G		16.724 14.984	83.264 81.437	77.381 77.365	1.00 55.61 1.00 55.37	6
ATOM	15590	C	LEU G		18.972	82.302	75.173	1.00133.58	6
MOTA	15591	0	LEU G		19.717	82.017	74.235	1.00134.35	8
MOTA	15592	N	LEU G		19.368	82.999	76.245	1.00 76.53 1.00 76.29	7 6
MOTA MOTA	15593 15594	CA CB	LEU G LEU G		20.738 21.576	83.520 82.649	76.381 77.314	1.00 76.29	6
ATOM	15595	CG		858	21.318	82.796	78.812	1.00 55.24	6
MOTA	15596	CD1	LEU G		22.412	82.050	79.600	1.00 56.31	6
ATOM	15597	CD2	LEU G LEU G		21.304 21.387	84.273 83.550	79.187 75.014	1.00 54.77 1.00 75.57	6 6
MOTA MOTA	15598 15599	C O	LEU G		22.021	82.581	74.595	1.00 75.87	8
MOTA	15600	Ň	ASP G		21.229	84.670	74.324	1.00 64.08	7
MOTA	15601	CA	ASP G		21.730	84.797	72.976	1.00 62.99	6
MOTA MOTA	15602 15603	CB CG	ASP G ASP G		21.503 21.144	86.205 86.214	72.462 71.006	1.00 36.94 1.00 37.04	6 6
ATOM	15604		ASP G		21.447	85.235	70.326	1.00 37.04	8
MOTA	15605	OD2			20.529	87.186	70.534	1.00 37.67	8
ATOM	15606	C	ASP G		23.166	84.404	72.707	1.00 63.17	6
MOTA	15607 15608	N O	ASP G LEU G		23.502 24.012	84.108 84.394	71.561 73.735	1.00 63.59 1.00 67.02	8 7
ATOM	15609	CA	LEU G		25.418	84.030	73.733	1.00 65.71	6
ATOM	15610	СВ	LEU G	860	25.557	82.766	72.703	1.00 17.81	6
ATOM	15611	CG	LEU G		26.786	82.676	71.802	1.00 14.86	6
MOTA MOTA	15612 15613	CD1 CD2			27.904 26.486	82.080 81.822	72.574 70.591	1.00 13.87 1.00 15.21	6 6
ATOM	15614	CDZ	LEU G		26.142	85.142	72.837	1.00 15.21	6
ATOM	15615	0	LEU G		27.361	85.261	72.968	1.00 67.08	8

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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15617 15618 15619 156622 156622 156622 156622 156622 156622 156622 156633 156633 156633 156644 156644 156655 15665 16665 166	N CA CB CG CD OE1 NCA CB CG ON CA CB CG	GLN G 861 GLN G 862 ALA G 862 ALA G 862 ALA G 862 ALA G 863 THR G 864 VAL G 864 VAL G 864 VAL G 864 VAL G 865 THR G 866	25.396 25.396 24.860 24.539 23.057 22.379 22.555 26.576 26.455 26.963 28.175 25.458 25.459 23.590 24.452 23.290 22.5535 24.913 24.191 26.650 26.755 28.061 25.649 24.829 24.829 24.862 25.041 26.755 26.761 26.864 27.166 26.755 26.761 26.864 27.166 26.765 27.765 27.76	85.939 87.077 87.864 87.318 87.374 88.375 86.296 87.892 87.783 88.531 89.593 87.705 86.423 87.562 88.87 89.512 88.635 87.562 88.531 89.593 87.705 86.423 87.562 88.887 89.512 88.674 90.173 90.414 91.023 88.033 88.785 88.	72.064 71.335 70.619 69.231 68.877 69.117 68.287 72.437 72.219 73.627 74.894 74.677 75.654 75.231 76.783 77.585 77.677 78.198 76.301 78.995 79.775 79.319 80.654 81.011 81.839 79.765 82.212 81.843 82.771 82.066 81.050 83.865 83.877 84.813 85.814 87.204 87.653 88.150 83.877 84.889 85.357 84.889 85.357	1.00 72.96 1.00 71.46 1.00 78.31 1.00 81.15 1.00 83.32 1.00 85.90 1.00 82.53 1.00 69.40 1.00 67.89 1.00 71.01 1.00 69.91 1.00147.44 1.00 68.60 1.00 68.70 1.00 30.07 1.00 29.08 1.00 73.20 1.00 76.57 1.00 72.02 1.00 26.54 1.00 25.80 1.00 23.50 1.00 22.07 1.00 23.36 1.00 23.36 1.00 22.10 1.00 22.10 1.00 23.36 1.00 23.36 1.00 22.10 1.00 23.36 1.00 23.36 1.00 23.36 1.00 23.36 1.00 23.36 1.00 25.61 1.00 45.08 1.00 45.06 1.00128.34 1.00131.99 1.00129.13 1.00 43.63 1.00 43.54 1.00 25.61 1.00 24.71 1.00 31.23 1.00 31.75 1.00 31.73 1.00 25.15 1.00 24.89 1.00 41.03 1.00 41.48 1.00 13.87	76666876876688766866876666876686687668668
MOTA	15657	0	THR G 866	25.953	82.201	84.889	1.00 24.89	
ATOM	15661	C	ALA G 867	29.668	80.845	85.934	1.00 42.73	6
MOTA	15662	0	ALA G 867	30.497	81.700	86.229	1.00 43.69	8
ATOM	15663 15664	N CA	ALA G 868 ALA G 868	29.719 30.795	79.604 79.174	86.395 87.265	1.00 34.32 1.00 36.10	7 6
MOTA MOTA	15665	CB	ALA G 868	30.793	78.199	88.290	1.00 30.10	6
ATOM	15666	C	ALA G 868	31.920	78.534	86.460	1.00 37.63	6
ATOM	15667	Ö	ALA G 868	31.771	78.286	85.272	1.00 37.79	8
ATOM	15668	N	ALA G 869	33.043	78.280	87.125	1.00 66.65	7
ATOM	15669	CA	ALA G 869	34.228	77.668	86.520	1.00 68.09	6
MOTA MOTA	15670 15671	CB C	ALA G 869 ALA G 869	34.647 35.352	78.440 77.698	85.274 87.555	1.00129.92 1.00 68.88	6 6
211 OF	TO / T	C	23112 0 007	55.554		0000		-

ATOM 15710 CG2 THR G 875 31.826 84.393 80.274 1.00 59.65 6 ATOM 15711 C THR G 875 29.688 86.168 80.771 1.00 14.64 6 ATOM 15712 O THR G 875 28.574 86.141 81.290 1.00 13.87 8 ATOM 15713 N ASN G 876 29.865 86.073 79.451 1.00 36.68 7 ATOM 15714 CA ASN G 876 28.755 85.851 78.517 1.00 38.78 6 ATOM 15715 CB ASN G 876 28.829 86.815 77.347 1.00184.15 6 ATOM 15716 CG ASN G 876 29.391 88.151 77.741 1.00190.14 6 ATOM 15717 OD1 ASN G 876 28.968 88.748 78.730 1.00194.99 8 ATOM 15718 ND2 ASN G 876 28.968 88.748 78.730 1.00194.99 8 ATOM 15719 C ASN G 876 28.970 84.427 78.007 1.00 38.08 6 ATOM 15720 O ASN G 876 30.101 84.030 77.758 1.00 36.14 8 ATOM 15721 N PRO G 877 27.892 83.646 77.827 1.00 44.83 7 ATOM 15722 CD PRO G 877 26.502 84.063 77.581 1.00 68.44 6 ATOM 15723 CA PRO G 877 26.502 84.063 77.581 1.00 68.44 6 ATOM 15724 CB PRO G 877 26.727 81.866 76.844 1.00 67.53 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15725 CG PRO G 877 29.159 82.251 76.269 1.00 43.95 6	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15673 15674 15675 15676 15677 15678 15679 15688 15688 15688 15688 15688 15699 15699 15699 15699 15700	O N CA C O N CA C C C C C C C C C C C C C C C C C	LEU G 873 LEU G 873 ALA G 874 ALA G 874 ALA G 874 ALA G 874 ALA G 875 THR G 875 THR G 875	36.538 34.951 35.893 35.780 36.656 34.686 34.395 35.563 33.165 32.806 32.511 31.332 30.277 29.585 26.865 26.232 26.513 31.685 32.000 31.621 31.941 32.749 34.138 34.841 34.926 30.786 29.667 29.794 29.703 28.880 30.786 29.794 29.703 28.880 30.786	77.748 77.657 77.710 79.091 79.532 79.771 81.123 82.068 81.578 80.976 82.630 83.101 83.637 82.219 82.485 83.648 81.598 84.194 85.298 83.902 84.921 84.327 83.757 83.466 84.747 85.576 84.933 86.857 87.612 89.074 87.441 87.977 86.686 86.334 85.005	87.216 88.821 89.915 90.528 91.273 90.196 90.677 90.378 89.922 88.921 90.385 89.674 90.641 91.465 92.121 93.141 93.968 93.890 94.889 88.696 89.099 87.409 86.433 85.526 84.206 85.328 85.786 84.962 85.328 85.786 84.962 85.328 81.632 81.632	1.00 68.88 1.00 57.15 1.00 58.51 1.00 59.51 1.00 61.33 1.00 56.97 1.00 56.70 1.00 13.87 1.00 56.66 1.00 57.56 1.00 40.49 1.00 39.68 1.00 80.04 1.00 83.64 1.00 85.99 1.00 89.26 1.00 91.96 1.00 93.33 1.00 93.53 1.00 93.53 1.00 37.68 1.00 36.99 1.00 33.92 1.00 33.92 1.00 16.71 1.00 33.95 1.00 14.72 1.00 16.71 1.00 33.95 1.00 44.78 1.00 44.78 1.00 45.55 1.00 14.16 1.00 14.84 1.00 56.84	87668766687666676776876666668766687668
ATOM 15708 CB THR G 875 31.768 85.005 81.635 1.00 56.84 6 ATOM 15709 OG1 THR G 875 33.099 85.243 82.113 1.00 58.85 8 ATOM 15710 CG2 THR G 875 31.826 84.393 80.274 1.00 59.65 6 ATOM 15711 C THR G 875 29.688 86.168 80.771 1.00 14.64 6 ATOM 15712 O THR G 875 28.574 86.141 81.290 1.00 13.87 8 ATOM 15713 N ASN G 876 29.865 86.073 79.451 1.00 36.68 7 ATOM 15714 CA ASN G 876 28.755 85.851 78.517 1.00 38.78 6 ATOM 15715 CB ASN G 876 28.829 86.815 77.347 1.00184.15 6 ATOM 15716 CG ASN G 876 29.391 88.151 77.741 1.00190.14 6 ATOM 15717 OD1 ASN G 876 28.968 88.748 78.730 1.00194.99 8 ATOM 15718 ND2 ASN G 876 28.968 88.748 78.730 1.00194.99 8 ATOM 15719 C ASN G 876 28.970 84.427 78.007 1.00 38.08 6 ATOM 15720 O ASN G 876 28.970 84.427 78.007 1.00 36.14 8 ATOM 15721 N PRO G 877 27.892 83.646 77.827 1.00 44.83 7 ATOM 15723 CA PRO G 877 26.502 84.063 77.581 1.00 68.44 6 ATOM 15724 CB PRO G 877 26.727 81.866 76.844 1.00 67.53 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15725 CG PRO G 877 29.159 82.251 76.269 1.00 43.95 6	ATOM ATOM	15705 15706	N O	ALA G 874 THR G 875	28.880 30.700	87.977 86.686	82.718 83.018	1.00 45.55 1.00 14.16	8 7
ATOM 15711 C THR G 875	MOTA MOTA	15708 15709	CB OG1	THR G 875 THR G 875	31.768 33.099	85.243	81.635 82.113	1.00 58.85	8
ATOM 15714 CA ASN G 876 28.755 85.851 78.517 1.00 38.78 6 ATOM 15715 CB ASN G 876 28.829 86.815 77.347 1.00184.15 6 ATOM 15716 CG ASN G 876 29.391 88.151 77.741 1.00190.14 6 ATOM 15717 OD1 ASN G 876 28.968 88.748 78.730 1.00194.99 8 ATOM 15718 ND2 ASN G 876 30.354 88.635 76.967 1.00192.51 7 ATOM 15719 C ASN G 876 28.970 84.427 78.007 1.00 38.08 6 ATOM 15720 O ASN G 876 30.101 84.030 77.758 1.00 36.14 8 ATOM 15721 N PRO G 877 27.892 83.646 77.827 1.00 44.83 7 ATOM 15722 CD PRO G 877 26.502 84.063 77.581 1.00 68.44 6 ATOM 15723 CA PRO G 877 28.105 82.277 77.348 1.00 44.06 6 ATOM 15724 CB PRO G 877 26.727 81.866 76.844 1.00 67.53 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15726 C PRO G 877 29.159 82.251 76.269 1.00 43.95 6	MOTA	15711	C	THR G 875	29.688	86.168	80.771	1.00 14.64	6
ATOM 15716 CG ASN G 876 29.391 88.151 77.741 1.00190.14 6 ATOM 15717 OD1 ASN G 876 28.968 88.748 78.730 1.00194.99 8 ATOM 15718 ND2 ASN G 876 30.354 88.635 76.967 1.00192.51 7 ATOM 15719 C ASN G 876 28.970 84.427 78.007 1.00 38.08 6 ATOM 15720 O ASN G 876 30.101 84.030 77.758 1.00 36.14 8 ATOM 15721 N PRO G 877 27.892 83.646 77.827 1.00 44.83 7 ATOM 15722 CD PRO G 877 26.502 84.063 77.581 1.00 68.44 6 ATOM 15723 CA PRO G 877 28.105 82.277 77.348 1.00 44.06 6 ATOM 15724 CB PRO G 877 26.727 81.866 76.844 1.00 67.53 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15726 C PRO G 877 29.159 82.251 76.269 1.00 43.95 6	ATOM ATOM	15713 15714	N CA	ASN G 876 ASN G 876	29.865 28.755	85.851	78.517	1.00 38.78	6
ATOM 15718 ND2 ASN G 876 30.354 88.635 76.967 1.00192.51 7 ATOM 15719 C ASN G 876 28.970 84.427 78.007 1.00 38.08 6 ATOM 15720 O ASN G 876 30.101 84.030 77.758 1.00 36.14 8 ATOM 15721 N PRO G 877 27.892 83.646 77.827 1.00 44.83 7 ATOM 15722 CD PRO G 877 26.502 84.063 77.581 1.00 68.44 6 ATOM 15723 CA PRO G 877 28.105 82.277 77.348 1.00 44.06 6 ATOM 15724 CB PRO G 877 26.727 81.866 76.844 1.00 67.53 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15726 C PRO G 877 29.159 82.251 76.269 1.00 43.95 6	MOTA	15716	CG	ASN G 876	29.391	88.151	77.741	1.00190.14	6
ATOM 15721 N PRO G 877 27.892 83.646 77.827 1.00 44.83 7 ATOM 15722 CD PRO G 877 26.502 84.063 77.581 1.00 68.44 6 ATOM 15723 CA PRO G 877 28.105 82.277 77.348 1.00 44.06 6 ATOM 15724 CB PRO G 877 26.727 81.866 76.844 1.00 67.53 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15726 C PRO G 877 29.159 82.251 76.269 1.00 43.95 6	ATOM ATOM	15718 15719	С	ASN G 876	28.970	84.427	78.007	1.00 38.08	6
ATOM 15723 CA PRO G 877 28.105 82.277 77.348 1.00 44.06 6 ATOM 15724 CB PRO G 877 26.727 81.866 76.844 1.00 67.53 6 ATOM 15725 CG PRO G 877 26.107 83.154 76.453 1.00 67.57 6 ATOM 15726 C PRO G 877 29.159 82.251 76.269 1.00 43.95 6	MOTA	15721	N	PRO G 877	27.892	83.646	77.827	1.00 44.83	7
ATOM 15726 C PRO G 877 29.159 82.251 76.269 1.00 43.95 6	ATOM ATOM	15723 15724	CA CB	PRO G 877 PRO G 877	28.105 26.727	82.277 81.866	77.348 76.844	1.00 44.06 1.00 67.53	6 6
			С	PRO G 877	29.159	82.251	76.269	1.00 43.95	6

ATOM ATOM ATOM ATOM	15728 15729 15730 15731	N CA C	GLY G GLY G GLY G GLY G	878 878	29.165 30.141 31.567 32.373	83.295 83.391 83.342 82.517	75.449 74.380 74.890 74.454	1.00 1.00	55.73 55.48 54.89 55.24	7 6 6 8
ATOM	15732	Ŋ		879	31.880	84.242	75.814		31.81	7
MOTA	15733	CA	ARG G	879	33.207	84.303	76.401	1.00	30.20	6
ATOM	15734	CB	ARG G		33.220	85.275	77.565	1.00	75.79	6
ATOM	15735 15736	CG	ARG G		32.059	86.258	77.592	1.00	77.49	6
ATOM ATOM	15737	CD NE	ARG G ARG G		32.527 33.866	87.484 87.775	78.320 77.830		79.29 82.26	6 7
ATOM	15738	CZ	ARG G		34.149	87.970	76.548		83.44	6
ATOM	15739	NH1	ARG G		33.180	87.931	75.648		84.99	7
ATOM	15740	NH2	ARG G		35.404	88.132	76.155		83.51	7
MOTA	15741	C	ARG G		33.507	82.914	76.919	1.00	29.15	6
ATOM ATOM	15742 15743	O N	ARG G ILE G		34.648 32.459	82.466 82.247	76.902	1.00		8 7
ATOM	15744	CA	ILE G		32.439	80.903	77.392 77.901	1.00	38.04 36.82	6
ATOM	15745	CB	ILE G		31.246	80.398	78.486		59.31	6
MOTA	15746	CG2	ILE G		31.308	78.892	78.738	1.00	59.60	6
MOTA	15747	CG1	ILE G		30.927	81.163	79.773	1.00	60.99	6
MOTA	15748 15749	CD1	ILE G		32.017	81.068	80.842	1.00	60.31	6
MOTA MOTA	15749	C 0	ILE G ILE G		32.970 33.970	80.052 79.345	76.716 76.767	1.00	35.96 37.18	6 8
MOTA	15751	N		881	32.191	80.135	75.639	1.00	29.30	7
ATOM	15752	CA		881	32.471	79.362	74.432	1.00	26.04	6
MOTA	15753	СВ		881	31.557	79.823	73.297	1.00	13.87	6
MOTA	15754	CG	LEU G		31.811	79.291	71.890	1.00		6
ATOM ATOM	15755 15756	CD1 CD2	LEU G LEU G		31.831 30.742	77.794 79.812	71.902 70.957		13.87 13.87	6 6
ATOM	15757	CDZ	LEU G		33.943	79.514	74.034	1.00	25.98	6
ATOM	15758	Ŏ	LEU G		34.679	78.516	74.035	1.00	25.33	8
ATOM	15759	N	PHE G		34.372	80.726	73.709	1.00	36.39	7
ATOM	15760	CA	PHE G		35.766	80.962	73.329	1.00	37.30	6
ATOM ATOM	15761 15762	CB CG		882 882	36.038 37.453	82.463 82.766	73.082 72.588	$1.00 \\ 1.00$	36.31 35.49	6 6
ATOM	15763	CD1	PHE G		37.433	82.769	72.300	1.00	35.49	6
ATOM	15764	CD2		882	38.488	83.004	73.484		35.56	6
MOTA	15765	CE1	PHE G		39.063	83.000	70.782	1.00	35.92	6
ATOM	15766	CE2	PHE G		39.787	83.233	73.039		35.40	6
ATOM ATOM	15767 15768	CZ C	PHE G PHE G		40.071 36.647	83.229 80.447	71.689 74.457		34.89 37.63	6 6
ATOM	15769	0	PHE G		37.698	79.876	74.221		38.05	8
MOTA	15770	Ň	ALA G		36.201	80.638	75.688		47.63	7
MOTA	15771	CA	ALA G		36.962	80.178	76.839	1.00	48.79	6
ATOM	15772	СВ	ALA G		36.179	80.416	78.118		89.30	6
ATOM ATOM	15773 15774	C O	ALA G		37.300 38.377	78.703 78.276	76.716		50.03 51.77	6 8
ATOM	15775	N	ARG G		36.368	77.932	77.131 76.155		28.79	7
MOTA	15776	CA	ARG G		36.531	76.486	75.953		27.87	6
MOTA	15777	CB	ARG G		35.178	75.790	75.995		47.89	6
ATOM	15778	CG	ARG G		35.189	74.394	75.422		51.11	6
ATOM ATOM	15779 15780	CD NE	ARG G		33.772 33.137	73.872 73.699	75.289 76.589		53.02 55.00	6 7
ATOM	15781	CZ	ARG G		31.824	73.647	76.369		55.95	6
ATOM	15782		ARG G		31.006	73.757	75.735		56.59	7
MOTA	15783	NH2	ARG G	884	31.332	73.490	77.995	1.00	56.70	7

ATOM 15823 CG2 VAL G 890 46.047 75.188 73.560 1.00 49.11 6 ATOM 15824 C VAL G 890 44.755 71.989 75.337 1.00 59.76 6 ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8	ATOM 15823 CG2 VAL G 890 46.047 75.188 73.560 1.00 49.11 6 ATOM 15824 C VAL G 890 44.755 71.989 75.337 1.00 59.76 6 ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6	ATOM 15823 CG2 VAL G 890	ATOM 15823 CG2 VAL G 890	ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	15785 15786 15788 15788 157789 157799 1577995 1577996 1577996 157799 15800 15800 15800 15810 15810 15811 15813 15813 15813 15813 15813 158213 15822 15822 15822 15822 15822 15822 15822 15822	C O N CA CB2 CCD1 C O N CA CBCCC O N CA CCCC O N CA CCCC O N CA CCCC O N CA CCCC O N CA CCCCC O N CA CCCCCC O N CCCCCCCCCC	ARG G 884 ARG G 885 ILE G 886 VAL G 888 GLY G 887 GLY G 887 GLY G 887 GLY G 887 GLY G 888 GLU G 888	35.3 40.6 40.8 41.2 42.1 42.2 43.5 44.2 43.8 45.1	75.254 76.962 77.963 77.648 47 78.228 64 79.422 22 76.719 62 77.669 89 77.699 88 79.685 76.170 76.152 77.669 88 79.685 76.601 77.766 76.152 77.766 7	70.617 72.388 71.847 73.115 73.323 73.895 75.330 73.000 74.327 74.439 75.057 76.056 75.459 75.496 74.902 74.313 73.925 75.136 74.769 73.875 75.377 73.127 72.499 72.823 71.728 71.728 71.725 73.458 74.163 74.693	1.00 26.71 1.00 25.97 1.00 31.04 1.00 30.99 1.00 43.96 1.00 45.49 1.00 43.65 1.00 43.74 1.00 29.83 1.00 27.56 1.00 26.35 1.00 13.87 1.00 13.87 1.00 28.11 1.00 28.11 1.00 28.19 1.00 24.36 1.00 27.35 1.00 29.17 1.00 28.82 1.00 65.82 1.00 65.82 1.00 65.82 1.00 65.82 1.00 65.82 1.00 65.82 1.00 670.30 1.00 39.86 1.00 39.86 1.00 39.80 1.00 40.62 1.00 70.30 1.00 71.83 1.00 43.05 1.00 44.24 1.00 76.02 1.00 44.97 1.00 49.51 1.00 49.51 1.00 48.83	687666668766668766876668868766687666
ATOM 15821 CB VAL G 890 45.787 74.225 74.693 1.00 49.51 6 ATOM 15822 CG1 VAL G 890 47.081 73.911 75.357 1.00 48.83 6 ATOM 15823 CG2 VAL G 890 46.047 75.188 73.560 1.00 49.11 6 ATOM 15824 C VAL G 890 44.755 71.989 75.337 1.00 59.76 6 ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8	ATOM 15821 CB VAL G 890 45.787 74.225 74.693 1.00 49.51 6 ATOM 15822 CG1 VAL G 890 47.081 73.911 75.357 1.00 48.83 6 ATOM 15823 CG2 VAL G 890 46.047 75.188 73.560 1.00 49.11 6 ATOM 15824 C VAL G 890 44.755 71.989 75.337 1.00 59.76 6 ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6	ATOM 15821 CB VAL G 890	ATOM 15821 CB VAL G 890	ATOM ATOM ATOM	15817 15818 15819	C O N	ALA G 889 ALA G 889 VAL G 890	43.5 44.2 43.8	30 72.639 24 71.791 74 73.227	72.316 71.755 73.458	1.00 44.97 1.00 43.95 1.00 54.40	6 8 7
ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8	ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6	ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6 ATOM 15833 CG ASP G 892 42.236 70.942 80.601 1.00208.87 6 ATOM 15834 OD1 ASP G 892 42.697 71.775 81.413 1.00208.87 8 ATOM 15835 OD2 ASP G 892 42.498 69.721 80.658 1.00208.87	ATOM 15825 O VAL G 890 43.702 71.352 75.330 1.00 61.17 8 ATOM 15826 N GLY G 891 45.624 71.904 76.336 1.00 79.51 7 ATOM 15827 CA GLY G 891 45.345 71.063 77.485 1.00 81.97 6 ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6 ATOM 15833 CG ASP G 892 42.236 70.942 80.601 1.00208.87 6 ATOM 15834 OD1 ASP G 892 42.697 71.775 81.413 1.00208.87 8 ATOM 15835 OD2 ASP G 892 42.498 69.721 80.658 1.00208.87 8 ATOM 15836 C ASP G 892 42.179 73.769 79.374 1.00124.31 6 ATOM 15837 O ASP G 892 43.309 74.218 79.566 1.00124.47 8 ATOM 15838 N GLU G 893 41.070 74.358 79.826 1.00 35.77 7	MOTA MOTA	15821 15822 15823	CB CG1	VAL G 890 VAL G 890 VAL G 890	45.7 47.0 46.0	87 74.225 81 73.911 47 75.188	74.693 75.357 73.560	1.00 49.51 1.00 48.83 1.00 49.11	6 6
ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8	ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6	ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6 ATOM 15833 CG ASP G 892 42.236 70.942 80.601 1.00208.87 6 ATOM 15834 OD1 ASP G 892 42.697 71.775 81.413 1.00208.87 8 ATOM 15835 OD2 ASP G 892 42.498 69.721 80.658 1.00208.87 8	ATOM 15828 C GLY G 891 44.323 71.710 78.406 1.00 83.30 6 ATOM 15829 O GLY G 891 44.633 72.050 79.554 1.00 83.11 8 ATOM 15830 N ASP G 892 43.111 71.886 77.879 1.00121.39 7 ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6 ATOM 15833 CG ASP G 892 42.236 70.942 80.601 1.00208.87 6 ATOM 15834 OD1 ASP G 892 42.697 71.775 81.413 1.00208.87 8 ATOM 15835 OD2 ASP G 892 42.498 69.721 80.658 1.00208.87 8 ATOM 15836 C ASP G 892 42.179 73.769 79.374 1.00124.31 6 ATOM 15837 O ASP G 892 43.309 74.218 79.566 1.00124.47 8 ATOM 15838 N GLU G 893 41.070 74.358 79.826 1.00 35.77 7	ATOM ATOM	15825 15826	O N	VAL G 890 GLY G 891	43.7 45.6	02 71.352 24 71.904	75.330 76.336	1.00 61.17 1.00 79.51	8 7
	ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6	ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6 ATOM 15833 CG ASP G 892 42.236 70.942 80.601 1.00208.87 6 ATOM 15834 OD1 ASP G 892 42.697 71.775 81.413 1.00208.87 8 ATOM 15835 OD2 ASP G 892 42.498 69.721 80.658 1.00208.87 8	ATOM 15831 CA ASP G 892 41.962 72.476 78.580 1.00124.21 6 ATOM 15832 CB ASP G 892 41.308 71.428 79.498 1.00208.87 6 ATOM 15833 CG ASP G 892 42.236 70.942 80.601 1.00208.87 6 ATOM 15834 OD1 ASP G 892 42.697 71.775 81.413 1.00208.87 8 ATOM 15835 OD2 ASP G 892 42.498 69.721 80.658 1.00208.87 8 ATOM 15836 C ASP G 892 42.179 73.769 79.374 1.00124.31 6 ATOM 15837 O ASP G 892 43.309 74.218 79.566 1.00124.47 8 ATOM 15838 N GLU G 893 41.070 74.358 79.826 1.00 35.77 7	MOTA MOTA	15828 15829	C 0	GLY G 891 GLY G 891	44.3 44.6	23 71.710 33 72.050	78.406 79.554	1.00 83.11	8

ATOM	15840	СВ	GLU G	893	39.683	75.905	81.123	1.00115.47	6
MOTA	15841	CG	GLU G	893	38.669	76.228	80.012	1.00117.40	6
MOTA	15842	CD		893	37.233	76.432	80.516	1.00118.53	6
ATOM	15843	OE1		893	36.967	77.406	81.261	1.00117.96	8
ATOM	15844	OE2		893	36.367	75.606	80.154	1.00119.18	8
ATOM	15845 15846	C O		893 893	42.086 42.601	75.460 74.372	81.768	1.00 35.36 1.00 33.68	6 8
ATOM ATOM	15847	N		894	42.330	76.586	82.051 82.438	1.00 33.88	7
ATOM	15848	CA		894	43.287	76.689	83.542	1.00 94.70	6
ATOM	15849	CB		894	43.321	75.413	84.397	1.00 94.12	6
MOTA	15850	CG		894	42.439	75.480	85.641	1.00 96.11	6
ATOM	15851	CD		894	42.664	74.283	86.567	1.00 96.16	6
ATOM	15852	CE		894	41.797	74.372	87.826	1.00 95.52	6
MOTA	15853	NZ		894 894	41.985	73.206	88.740	1.00 94.50	7
ATOM	15854 15855	C O		894	44.650 45.236	76.928 78.003	82.907 83.029	1.00 94.03 1.00 94.64	6 8
ATOM	15856	N		895	45.147	75.915	82.215	1.00 49.20	7
ATOM	15857	CA		895	46.425	76.020	81.528	1.00 47.60	6
ATOM	15858	CB		895	46.765	74.711	80.762	1.00119.60	6
MOTA	15859	CG1		895	48.197	74.760	80.268	1.00120.33	6
MOTA	15860	CG2		895	46.531	73.493	81.649	1.00119.78	6
MOTA	15861	C		895	46.266	77.140	80.505	1.00 45.77	6
ATOM ATOM	15862 15863	O N	VAL G ALA G	895 896	47.222 45.038	77.847 77.277	80.194 79.999	1.00 44.83 1.00 60.71	8 7
ATOM	15864	CA	ALA G		44.676	78.272	78.991	1.00 60.71	6
ATOM	15865	CB	ALA G		43.807	77.638	77.925	1.00 72.91	6
MOTA	15866	С		896	43.953	79.467	79.576	1.00 60.58	6
MOTA	15867	0	ALA G		43.515	80.353	78.848	1.00 60.79	8
ATOM	15868	N	GLN G		43.799	79.481	80.891	1.00100.94	7
MOTA	15869 15870	CA		897 897	43.144	80.606	81.531	1.00100.51	6
ATOM ATOM	15870	CB CG		897	42.477 41.343	80.177 81.096	82.847 83.327	1.00 86.09 1.00 86.84	6 6
ATOM	15872	CD		897	40.153	81.174	82.357	1.00 87.05	6
ATOM	15873	OE1		897	39.147	81.826	82.641	1.00 86.67	8
MOTA	15874	NE2	GLN G		40.271	80.511	81.212	1.00 87.07	7
ATOM	15875	C	GLN G		44.260	81.607	81.784	1.00100.40	6
MOTA	15876	0	GLN G	897 898	44.012	82.747	82.159	1.00102.19	8 7
ATOM ATOM	15877 15878	N CA		898	45.497 46.671	81.164 82.012	81.566 81.745	1.00 75.51 1.00 74.64	6
ATOM	15879	CB	GLU G		47.918	81.165	81.971	1.00 66.30	6
ATOM	15880	CG	GLU G		48.050	80.667	83.385	1.00 67.20	6
ATOM	15881	CD	GLU G		49.062	79.553	83.523	1.00 67.60	6
ATOM	15882	OE1			50.234	79.747	83.125	1.00 67.53	8
ATOM	15883	OE2			48.675	78.480	84.039	1.00 67.31	8
ATOM	15884 15885	С О	GLU G GLU G		46.867 47.306	82.865 84.011	80.510 80.602	1.00 73.74 1.00 74.78	6 8
ATOM	15886	N	LEU G		46.545	82.294	79.352	1.00 /4.78	7
MOTA	15887	CA	LEU G		46.672	83.013	78.097	1.00 42.54	6
MOTA	15888	CB	LEU G		47.508	82.255	77.075	1.00 26.37	6
MOTA	15889	CG	LEU G		48.356	81.084	77.514	1.00 26.06	6
ATOM	15890	CD1 CD2	LEU G		49.116	81.462	78.783	1.00 25.38	6
ATOM ATOM	15891 15892	CD2	LEU G LEU G		47.463 45.325	79.883 83.248	77.717 77.478	1.00 26.33 1.00 41.69	6 6
ATOM	15893	Ö	LEU G		44.893	82.475	76.635	1.00 42.31	8
ATOM	15894	N	ILE G		44.668	84.316	77.897	1.00 22.53	7
MOTA	15895	CA	ILE G	900	43.375	84.703	77.358	1.00 22.79	6

ATOM	15896	СВ	ILE G	900	42.281	83.627	77.609	1.00 36.61	6
ATOM	15897	CG2	ILE G		40.897	84.202	77.398	1.00 35.79	6
ATOM	15898	CG1	ILE G		42.381	82.514	76.582	1.00 37.49	6
MOTA	15899	CD1	ILE G		41.455	81.390	76.897	1.00 40.24	6
ATOM	15900 15901	C	ILE G		42.968	86.012	78.022	1.00 23.21	6
ATOM ATOM	15901	N O	GLN G		43.421 42.134	86.335 86.774	79.126 77.325	1.00 22.80 1.00 19.87	8
ATOM	15902	CA	GLN G		41.634	88.037	77.823	1.00 19.87 1.00 21.52	7 6
ATOM	15904	CB	GLN G		41.628	89.039	76.674	1.00 21.32	6
ATOM	15905	CG	GLN G		43.028	89.319	76.126	1.00 69.31	6
MOTA	15906	CD		901	43.756	90.391	76.913	1.00 69.07	6
MOTA	15907	OE1		901	43.625	91.581	76.623	1.00 68.55	8
MOTA	15908	NE2	GLN G		44.514	89.979	77.923	1.00 68.90	7
MOTA	15909	С	GLN G		40.229	87.746	78.346	1.00 22.56	6
MOTA	15910	0	GLN G		39.302	88.552	78.234	1.00 21.99	8
ATOM	15911	N	MET G		40.115	86.556	78.925	1.00 56.90	7
ATOM	15912	CA		902	38.889	86.015	79.490	1.00 57.86	6
MOTA MOTA	15913 15914	CB CG	MET G		39.162 38.006	85.524 84.777	80.911 81.551	1.00 74.23 1.00 76.01	6 6
ATOM	15914	SD	MET G		37.447	83.344	80.628	1.00 76.01 1.00 77.57	16
ATOM	15916	CE		902	35.979	84.035	79.850	1.00 77.37	6
ATOM	15917	C		902	37.689	86.951	79.477	1.00 57.85	6
MOTA	15918	0	MET G		36.691	86.652	78.824	1.00 57.85	8
ATOM	15919	N	ASP G	903	37.789	88.074	80.190	1.00 35.08	7
MOTA	15920	CA	ASP G		36.697	89.032	80.257	1.00 35.13	6
ATOM	15921	CB	ASP G		36.767	89.869	81.529	1.00 71.82	6
ATOM	15922	CG		903	38.069	90.597	81.668	1.00 75.46	6
ATOM	15923			903	38.706	90.871	80.630	1.00 77.78	8
ATOM	15924 15925	OD2 C		903 903	38.451	90.911	82.818	1.00 77.13	8
ATOM ATOM	15925	0		903	36.678 37.645	89.930 90.639	79.039 78.733	1.00 34.20 1.00 32.37	6 8
ATOM	15927	N	VAL G		35.536	89.858	78.360	1.00 32.37	7
ATOM	15928	CA		904	35.201	90.558	77.123	1.00162.19	6
ATOM	15929	СВ		904	33.790	91.172	77.211	1.00 40.65	6
MOTA	15930	CG1	VAL G	904	33.117	91.147	75.858	1.00 39.86	6
MOTA	15931	CG2		904	32.968	90.410	78.195	1.00 39.71	6
MOTA	15932	C	VAL G		36.141	91.589	76.537	1.00163.22	6
ATOM	15933	0	VAL G		35.938	92.793	76.680	1.00164.16	8
ATOM ATOM	15934 15935	N CD		905	37.197	91.119 89.749	75.863	1.00 60.14	7
ATOM	15936	CA	PRO G		37.735 38.165	92.005	75.957 75.235	1.00110.94 1.00 59.02	6
ATOM	15937	CB	PRO G		39.466	91.259	75.430	1.00109.95	6 6
MOTA	15938	CG	PRO G		39.035	89.849	75.192	1.00103.33	6
ATOM	15939	C	PRO G		37.719	92.056	73.777	1.00 57.10	6
MOTA	15940	0	PRO G	905	37.794	93.095	73.135	1.00 57.59	8
ATOM	15941	N	GLN G		37.231	90.916	73.285	1.00 49.21	7
ATOM	15942	CA	GLN G		36.724	90.757	71.917	1.00 49.85	6
MOTA	15943	CB	GLN G		36.195	92.095	71.405	1.00 53.87	6
MOTA	15944 15945	CG	GLN G		34.901	92.512	72.055	1.00 55.86	6
ATOM ATOM	15945	CD OE1	GLN G GLN G		34.943 35.161	92.399 91.321	73.564 74.113	1.00 57.00 1.00 57.22	6 8
ATOM	15947	NE2	GLN G		34.732	93.514	74.113	1.00 57.22	7
ATOM	15948	C	GLN G		37.669	90.131	70.879	1.00 49.11	6
ATOM	15949	Ō	GLN G		37.238	89.687	69.803	1.00 48.41	8
MOTA	15950	N	GLU G		38.954	90.091	71.199	1.00 79.81	7
MOTA	15951	CA	GLU G	907	39.919	89.507	70.288	1.00 78.33	6

ATOM	15952	СВ	GLU G	907	39.525	88.057	70.013	1.00 46.27	6
ATOM	15953	CG	GLU G	907	39.867	87.081	71.139	1.00 46.49	6
MOTA	15954	CD	GLU G	907	39.044	87.268	72.387	1.00 45.93	6
MOTA	15955	OE1	GLU G	907	37.801	87.271	72.283	1.00 44.60	8
ATOM	15956	OE2		907	39.649	87.394	73.474	1.00 45.94	8
ATOM	15957	C	GLU G	907	40.017	90.296	68.976	1.00 77.28	6
MOTA	15958	0	GLU G		39.047	90.924	68.550	1.00 78.63	8
ATOM	15959	N	LYS G	908	41.194	90.253	68.353	1.00 24.13 1.00 22.51	7
MOTA MOTA	15960 15961	CA CB	LYS G LYS G	908 908	41.473 40.815	90.950 92.330	67.107 67.108	1.00 22.31	6 6
ATOM	15962	CB		908	41.446	93.325	66.150	1.00159.89	6
ATOM	15963	CD		908	42.212	94.429	66.892	1.00167.39	6
MOTA	15964	CE	LYS G		42.750	95.498	65.930	1.00168.09	6
MOTA	15965	NZ	LYS G	908	43.541	96.566	66.618	1.00167.48	7
MOTA	15966	С	LYS G	908	42.986	91.111	66.997	1.00 20.27	6
MOTA	15967	0		908	43.610	90.720	66.009	1.00 18.93	8
MOTA	15968	N	ASN G		43.583	91.689	68.031	1.00 57.22	7
MOTA	15969	CA	ASN G		45.022	91.923	68.046	1.00 55.65	6
ATOM ATOM	15970 15971	CB CG	ASN G ASN G	909	45.291 46.433	93.389 93.979	68.387 67.589	1.00 48.68 1.00 47.29	6 6
ATOM	15972	OD1		909	47.543	93.441	67.584	1.00 47.29	8
MOTA	15973	ND2		909	46.168	95.100	66.911	1.00 46.82	7
MOTA	15974	C		909	45.638	91.037	69.109	1.00 54.42	6
MOTA	15975	0	ASN G	909	46.855	90.933	69.219	1.00 54.18	8
MOTA	15976	N	SER G		44.769	90.420	69.904	1.00 63.47	7
ATOM	15977	CA	SER G		45.175	89.543	70.990	1.00 60.11	6
MOTA	15978	CB		910	44.116	89.497	72.077	1.00 13.87	6
ATOM	15979 15980	OG C	SER G SER G		42.975 45.324	88.782 88.149	71.635 70.461	1.00 13.87 1.00 58.93	8 6
ATOM	15981	0	SER G		46.290	87.455	70.401	1.00 58.95	8
ATOM	15982	N	LEU G		44.336	87.728	69.674	1.00 00.50	7
ATOM	15983	CA		911	44.360	86.393	69.095	1.00 16.36	6
MOTA	15984	CB		911	43.449	86.335	67.870	1.00 13.87	6
MOTA	15985	CG		911	42.081	85.679	68.034	1.00 13.87	6
ATOM	15986	CD1		911	41.751	85.421	69.480	1.00 13.87	6
ATOM ATOM	15987 15988	CD2		911 911	41.066	86.563	67.389 68.725	1.00 13.87 1.00 15.35	6 6
ATOM	15989	C O		911	45.806 46.438	86.174 85.228	69.183	1.00 13.35	8
ATOM	15990	N		912	46.331	87.095	67.934	1.00 15.44	7
ATOM	15991	CA		912	47.719	87.037	67.539	1.00 18.81	6
ATOM	15992	CB	LYS G		48.117	88.362	66.885	1.00 42.46	6
ATOM	15993	CG	LYS G		49.592	88.491	66.508	1.00 43.58	6
ATOM	15994	CD	LYS G		49.831	89.784	65.744	1.00 44.30	6
ATOM	15995	CE	LYS G		51.225	89.858	65.159	1.00 45.82	6
ATOM ATOM	15996 15997	NZ C	LYS G LYS G		51.267 48.584	90.850 86.772	64.043 68.780	1.00 43.71 1.00 19.99	7 6
ATOM	15998	0	LYS G		49.181	85.706	68.915	1.00 19.99	8
ATOM	15999	Ň	ASP G		48.637	87.723	69.702	1.00 47.75	7
ATOM	16000	CA	ASP G		49.457	87.518	70.876	1.00 48.99	6
MOTA	16001	CB	ASP G		49.361	88.710	71.826	1.00 82.36	6
MOTA	16002	CG	ASP G		50.480	88.712	72.854	1.00 88.19	6
MOTA	16003		ASP G		50.269	88.161	73.955	1.00 90.42	8
ATOM ATOM	16004 16005	OD2 C	ASP G ASP G		51.578 49.130	89.243 86.217	72.555 71.599	1.00 89.92 1.00 47.74	8 6
ATOM	16005	0	ASP G		50.046	85.531	72.053	1.00 47.74	8
ATOM	16007	N	LEU G		47.849	85.858	71.707	1.00 49.81	7

ATOM ATOM ATOM	16008 16009 16010	CA CB CG	LEU G LEU G LEU G	914	47.502 46.026 45.480	84.598 84.242 83.139	72.367 72.190 73.125	1.00 47.58 1.00 13.87 1.00 13.87	6 6 6
ATOM	16011	CD1		914	44.332	82.460	72.432	1.00 13.87	6
ATOM	16012	CD2		914	46.523	82.098	73.501	1.00 13.87	6
ATOM ATOM	16013 16014	C O	LEU G	914	48.336 49.135	83.536 82.835	71.660 72.293	1.00 47.64 1.00 47.19	6 8
ATOM	16015	N	VAL G		48.132	83.435	70.344	1.00 29.23	7
ATOM	16016	CA	VAL G		48.850	82.496	69.507	1.00 27.15	6
MOTA	16017 16018	CB CG1	VAL G		48.651	82.793 81.791	68.055 67.222	1.00 13.87 1.00 13.87	6 6
ATOM ATOM	16018	CG1	VAL G		49.385 47.213	82.767	67.748	1.00 13.87	6
ATOM	16020	C	VAL G		50.326	82.603	69.783	1.00 29.16	6
ATOM	16021	0	VAL G		51.032	81.602	69.737	1.00 30.18	8
ATOM ATOM	16022 16023	N CA	TYR G		50.811 52.223	83.811 83.950	70.055 70.347	1.00 26.69 1.00 28.19	7 6
MOTA	16023	CB	TYR G		52.716	85.388	70.236	1.00 28.19	6
MOTA	16025	CG	TYR G	916	54.173	85.517	70.687	1.00 17.65	6
MOTA	16026	CD1	TYR G		55.177	85.886	69.800	1.00 15.59	6
MOTA MOTA	16027 16028	CE1 CD2	TYR G		56.507 54.555	85.923 85.198	70.211 71.996	1.00 14.46 1.00 16.37	6 6
MOTA	16029	CE2	TYR G		55.869	85.232	72.404	1.00 14.46	6
MOTA	16030	CZ	TYR G		56.832	85.594	71.515	1.00 14.46	6
MOTA MOTA	16031 16032	OH C	TYR G		58.124 52.543	85.650 83.466	71.952 71.742	1.00 15.03 1.00 30.99	8 6
ATOM	16032	0	TYR G		53.214	82.451	71.742	1.00 30.99	8
MOTA	16034	N	GLN G	917	52.089	84.205	72.756	1.00 59.90	7
ATOM	16035	CA	GLN G		52.397	83.849	74.138	1.00 63.11	6
MOTA MOTA	16036 16037	CB CG	GLN G		51.934 53.070	84.948 85.932	75.110 75.512	1.00 81.73 1.00 83.43	6 6
MOTA	16038	CD	GLN G		53.127	87.239	74.685	1.00 83.94	6
MOTA	16039	OE1	GLN G		52.944	87.238	73.463	1.00 82.83	8
MOTA MOTA	16040 16041	NE2 C	GLN G		53.407 51.874	88.355 82.491	75.364 74.555	1.00 82.96 1.00 64.25	7 6
ATOM	16041	0	GLN G		51.684	82.217	75.735	1.00 65.21	8
ATOM	16043	N	ALA G	918	51.667	81.647	73.551	1.00 59.02	7
MOTA	16044	CA	ALA G		51.209	80.274	73.706	1.00 60.12	6
MOTA MOTA	16045 16046	CB C	ALA G		49.903 52.315	80.063 79.458	72.959 73.061	1.00 68.85 1.00 60.57	6 6
ATOM	16047	0	ALA G		52.746	78.440	73.596	1.00 61.30	8
ATOM	16048	N	PHE G		52.767	79.939	71.903	1.00 49.26	7
ATOM ATOM	16049 16050	CA CB	PHE G		53.846 54.330	79.321 80.267	71.135 70.027	1.00 47.60 1.00 27.52	6 6
ATOM	16050	CG	PHE G		55.359	79.657	69.101	1.00 27.52	6
MOTA	16052	CD1	PHE G	919	54.978	79.089	67.893	1.00 21.13	6
ATOM	16053	CD2	PHE G		56.705	79.641	69.446	1.00 19.18 1.00 19.37	6 6
ATOM ATOM	16054 16055	CE1 CE2	PHE G		55.916 57.646	78.523 79.076	67.060 68.612	1.00 19.37	6
ATOM	16056	CZ	PHE G		57.251	78.518	67.422	1.00 18.48	6
ATOM	16057	C	PHE G		54.996	79.058	72.079	1.00 47.88	6
ATOM ATOM	16058 16059	O N	PHE G LEU G		55.787 55.085	78.149 79.874	71.863 73.121	1.00 48.05 1.00 28.94	8 7
ATOM	16060	CA	LEU G		56.131	79.731	74.112	1.00 28.94	6
MOTA	16061	CB	LEU G	920	56.441	81.075	74.761	1.00 38.31	6
ATOM	16062	CG CD1	LEU G		56.834	82.276	73.897	1.00 38.74	6
ATOM	16063	CD1	LEU G	920	58.285	82.609	74.179	1.00 37.41	6

ATOM ATOM ATOM ATOM ATOM	16065 16066 16067	CD2 C O N CA	LEU G 9 LEU G 9 LEU G 9 ARG G 9	20 20 21	56.610 55.689 56.437 54.473 53.960	82.005 78.753 77.828 78.939 78.084	72.417 75.197 75.544 75.720 76.798	1.00 38.21 1.00 32.43 1.00 33.77 1.00 36.83 1.00 37.20	6 6 8 7 6
ATOM	16069	CB	ARG G 9	21	52.768	78.752	77.490	1.00 95.12	6
ATOM ATOM	16070 16071	CG CD	ARG G 9 ARG G 9	21 21	53.079 52.298	80.115 80.351	78.083 79.366	1.00 99.99 1.00103.84	6 6
MOTA	16072	NE	ARG G 9		52.402	81.737	79.817	1.00103.04	7
MOTA	16073	CZ	ARG G 9		51.989	82.173	81.003	1.00112.84	6
MOTA MOTA	16074 16075	NH1 NH2			51.444	81.327	81.867	1.00114.38	7
ATOM	16075	C		21 21	52.118 53.565	83.456 76.681	81.326 76.368	1.00113.91 1.00 35.46	7 6
ATOM	16077	Ö	ARG G 9		53.420	75.787	77.193	1.00 35.40	8
ATOM	16078	N	LEU G 9		53.397	76.494	75.073	1.00 64.30	7
ATOM ATOM	16079 16080	CA CB	LEU G 9 LEU G 9		53.026	75.200 75.146	74.541	1.00 63.50	6
ATOM	16080	CG	LEU G 9		51.507 50.712	75.146	74.366 75.585	1.00 18.17 1.00 16.20	6 6
ATOM	16082	CD1			49.233	75.769	75.264	1.00 14.05	6
ATOM	16083	CD2		22	50.930	74.612	76.669	1.00 14.42	6
ATOM ATOM	16084 16085	C 0	LEU G 9 LEU G 9		53.744 53.769	75.045 75.982	73.196 72.390	1.00 63.72 1.00 64.88	6
ATOM	16086	N	GLY G 9		54.340	73.879	72.330	1.00 84.88	8 7
ATOM	16087	CA		23	55.049	73.674	71.694	1.00 32.46	6
MOTA	16088	C		23	54.243	73.916	70.420	1.00 31.64	6
ATOM ATOM	16089 16090	O N	GLY G 9 MET G 9		53.027 54.934	74.105 73.911	70.455 69.285	1.00 32.09 1.00 24.29	8 7
ATOM	16091	CA	MET G 9		54.301	74.118	67.988	1.00 24.23	6
ATOM	16092	CB	MET G 9		55.242	73.727	66.865	1.00 31.67	6
ATOM ATOM	16093 16094	CG SD	MET G 9: MET G 9:		56.426 57.356	74.602	66.683	1.00 30.54	6
ATOM	16095	CE	MET G 9		58.727	73.819 73.169	65.405 66.390	1.00 29.77 1.00 30.31	16 6
ATOM	16096	C	MET G 9	24	53.073	73.255	67.844	1.00 23.04	6
ATOM	16097	0	MET G 9		51.972	73.741	67.601	1.00 23.98	8
ATOM ATOM	16098 16099	N CA	GLU G 9:	25 25	53.293 52.222	71.956 71.004	67.955 67.836	1.00 36.57	7 6
MOTA	16100	CB	GLU G 9:		52.603	69.682	68.521	1.00 37.61 1.00102.24	6
MOTA	16101	CG	GLU G 9	25	53.701	69.789	69.583	1.00106.64	6
MOTA	16102	CD		25	55.066	69.323	69.084	1.00109.07	6
ATOM ATOM	16103 16104	OE1 OE2	GLU G 9:		55.571 55.640	69.890 68.389	68.093 69.687	1.00110.33 1.00111.51	8 8
ATOM	16105	C	GLU G 9:		50.968	71.592	68.457	1.00 37.24	6
ATOM	16106	0	GLU G 9		49.992	71.816	67.761	1.00 38.11	8
MOTA MOTA	16107 16108	N CA	LYS G 9: LYS G 9:		50.989 49.794	71.885 72.419	69.750 70.363	1.00 21.59 1.00 21.44	7
ATOM	16109	CB	LYS G 92		49.794	72.419	70.363	1.00 21.44	6 6
ATOM	16110	CG	LYS G 92	26	50.161	71.124	72.487	1.00 36.08	6
MOTA	16111	CD	LYS G 92		49.704	71.075	73.945	1.00 35.26	6
MOTA MOTA	16112 16113	CE NZ	LYS G 92		48.181 47.695	71.196 70.941	74.083 75.479	1.00 35.46 1.00 33.20	6 7
ATOM	16114	C	LYS G 92		49.323	73.765	69.810	1.00 33.20	6
ATOM	16115	0	LYS G 92		48.147	74.099	69.911	1.00 22.56	8
MOTA MOTA	16116 16117	N CA	THR G 92		50.205 49.726	74.557 75.820	69.220 68.688	1.00 32.53 1.00 32.90	7
ATOM	16118	CB	THR G 92		50.859	76.839	68.548	1.00 32.90	6 6
MOTA	16119	OG1	THR G 92		51.168	77.369	69.840	1.00 40.65	8

ATOM	16120 16121	CG2 C	THR G		50.442 49.013	77.990 75.589	67.665 67.359	1.00 38.50 1.00 33.69	6 6
ATOM ATOM	16121	0	THR G		48.276	76.449	66.882	1.00 35.63	8
MOTA	16123	Ň	ALA G		49.209	74.416	66.767	1.00 47.73	7
MOTA	16124	CA	ALA G		48.528	74.091	65.514	1.00 46.88	6
ATOM	16125	СВ	ALA G	928	49.274	73.001	64.762	1.00 46.71	6
ATOM	16126	С	ALA G		47.109	73.622	65.837	1.00 47.00	6
MOTA	16127	0		928	46.167	73.939	65.108	1.00 46.91	8
ATOM	16128	N		929	46.967	72.861	66.927	1.00 30.29	7
ATOM	16129	CA		929	45.661	72.369	67.352	1.00 29.29	6 6
ATOM	16130	CB	ARG G ARG G		45.733 46.729	71.723 70.591	68.738 68.898	1.00 75.51 1.00 80.45	6
MOTA	16131 16132	CG CD		929	46.729	69.314	68.217	1.00 80.43	6
ATOM ATOM	16132	NE		929	47.126	68.179	68.564	1.00 90.86	7
ATOM	16133	CZ	ARG G	929	47.014	66.956	68.043	1.00 94.45	6
MOTA	16135	NH1	ARG G	929	46.079	66.686	67.137	1.00 96.35	7
ATOM	16136	NH2	ARG G		47.838	65.993	68.435	1.00 96.30	7
MOTA	16137	С	ARG G		44.817	73.625	67.444	1.00 27.83	6
MOTA	16138	0	ARG G		43.850	73.794	66.695	1.00 27.04	8
MOTA	16139	N	LEU G	930	45.230	74.506	68.360	1.00 37.78	7
MOTA	16140	CA	LEU G	930	44.580	75.786	68.633	1.00 36.08	6
ATOM	16141	CB	LEU G	930	45.357 45.170	76.551 78.075	69.705 69.729	1.00 38.85 1.00 39.94	6 6
ATOM ATOM	16142 16143	CG CD1		930 930	43.713	78.447	69.729	1.00 39.94	6
ATOM	16143	CD1	LEU G		46.067	78.661	70.807	1.00 39.71	6
MOTA	16145	C		930	44.438	76.664	67.397	1.00 34.88	6
ATOM	16146	0		930	43.421	77.348	67.234	1.00 35.31	8
ATOM	16147	N		931	45.456	76.663	66.537	1.00 17.30	7
ATOM	16148	CA	LEU G		45.386	77.462	65.323	1.00 15.74	6
ATOM	16149	CB	LEU G		46.662	77.328	64.496 64.291	1.00 19.22 1.00 17.16	6 6
ATOM	16150 16151	CG CD1	LEU G LEU G	931	47.465 46.551	78.611 79.799	63.983	1.00 17.16	6
ATOM	16151	CD1	LEU G		48.249	78.881	65.543	1.00 17.18	6
ATOM	16153	C	LEU G		44.192	76.981	64.504	1.00 15.89	6
ATOM	16154	Ō	LEU G		43.617	77.709	63.704	1.00 15.27	8
ATOM	16155	N	ASP G		43.810	75.738	64.709	1.00 30.07	7
ATOM	16156	CA		932	42.679	75.221	63.981	1.00 30.84	6
MOTA	16157	CB	ASP G	932	42.922	73.771	63.641	1.00 49.32	6
ATOM	16158	CG OD1	ASP G ASP G		43.517 42.754	73.623 73.822	62.288 61.324	1.00 49.58 1.00 50.23	6 8
ATOM ATOM	16159 16160	OD1			44.731	73.343	62.183	1.00 30.23	8
ATOM	16161	C	ASP G		41.415	75.384	64.784	1.00 30.57	6
ATOM	16162	Ö	ASP G		40.408	75.881	64.272	1.00 29.68	8
MOTA	16163	N	ALA G		41.470	74.958	66.041	1.00 16.72	7
ATOM	16164	CA	ALA G		40.331	75.087	66.913	1.00 15.81	6
ATOM	16165	CB	ALA G		40.772	75.071	68.354	1.00 13.87	6
ATOM	16166	C	ALA G		39.754	76.435	66.547	1.00 17.01	6
ATOM	16167	0	ALA G		38.594 40.580	76.536 77.473	66.156 66.630	1.00 18.18 1.00 47.76	8 7
ATOM ATOM	16168 16169	N CA	LEU G LEU G		40.380	78.804	66.274	1.00 47.70	6
ATOM	16170	CB	LEU G		41.274	79.789	66.331	1.00 26.43	6
ATOM	16171	CG	LEU G		41.685	80.069	67.769	1.00 25.46	6
MOTA	16172	CD1	LEU G	934	42.888	80.979	67.763	1.00 25.41	6
MOTA	16173	CD2	LEU G		40.533	80.715	68.523	1.00 24.46	6
MOTA	16174	C	LEU G		39.478	78.801	64.887	1.00 49.38 1.00 49.81	6 8
MOTA	16175	0	LEU G	934	38.260	78.894	64.774	1.00 47.01	0

ATOM	16176	N	LYS G	935	40.284	78.677	63.839	1 00	39.42	7
ATOM	16177	CA		935	39.746	78.649	62.489		40.39	6
ATOM	16178	СВ		935	40.587	77.751	61.576		22.21	6
ATOM	16179	CG		935	40.052	77.705	60.134		20.96	6
ATOM	16180	CD		935	40.696	76.653	59.240		20.28	6
ATOM	16181	CE		935	40.313	75.241	59.641		22.50	6
MOTA	16182	NZ		935	41.007	74.250	58.779		21.34	7
ATOM	16183	C		935	38.305	78.135	62.469		41.82	6
ATOM	16184	Ö	LYS G		37.363	78.926	62.391		43.19	8
ATOM	16185	N	TYR G		38.135	76.816	62.555		41.92	7
MOTA	16186	CA	TYR G		36.803	76.217	62.509		41.52	6
ATOM	16187	CB	TYR G		36.797	74.858	63.205		38.50	6
ATOM	16188	CG	TYR G		35.470	74.093	63.158		39.63	6
MOTA	16189	CD1	TYR G		35.399	72.761	63.592		40.47	6
ATOM	16190	CE1	TYR G		34.179	72.067	63.634		41.86	6
ATOM	16191	CD2	TYR G		34.282	74.708	62.756		40.46	6
ATOM	16192	CE2	TYR G		33.055	74.025	62.801		41.21	6
ATOM	16193	CZ	TYR G		33.009	72.707	63.244		42.57	6
ATOM	16194	OH	TYR G		31.795	72.046	63.337		42.34	8
ATOM	16195	C	TYR G		35.749	77.110	63.127		40.80	6
ATOM	16196	Ö	TYR G		34.841	77.575	62.440		40.35	8
ATOM	16197	N	TYR G		35.869	77.355	64.422		31.70	7
ATOM	16198	CA	TYR G		34.899	78.186	65.108		32.79	6
ATOM	16199	CB	TYR G		35.287	78.315	66.566		25.49	6
ATOM	16200	CG		937	34.947	77.070	67.309		26.11	6
MOTA	16201	CD1		937	35.069	75.831	66.703		26.57	6
MOTA	16202	CE1		937	34.786	74.668	67.386		26.88	6
MOTA	16203	CD2	TYR G		34.527	77.118	68.617		26.56	6
MOTA	16204	CE2	TYR G	937	34.245	75.966	69.316		26.74	6
MOTA	16205	CZ	TYR G	937	34.379	74.737	68.699	1.00	26.70	6
MOTA	16206	OH	TYR G	937	34.132	73.577	69.417	1.00	27.27	8
MOTA	16207	С	TYR G	937	34.697	79.555	64.489	1.00	33.93	6
MOTA	16208	0	TYR G	937	33.597	79.870	64.029	1.00	33.73	8
MOTA	16209	N	GLY G	938	35.747	80.369	64.473		35.73	7
MOTA	16210	CA	GLY G		35.634	81.695	63.897		35.91	6
MOTA	16211	С		938	34.857	81.619	62.606		35.32	6
MOTA	16212	0		938	33.959	82.419	62.337		37.07	8
ATOM	16213	N		939	35.204	80.617	61.816		29.89	7
ATOM	16214	CA		939	34.564	80.386	60.537		29.60	6
MOTA	16215	CB	PHE G		35.262	79.245	59.827		25.78	6
ATOM	16216	CG	PHE G		36.313	79.686	58.884	1.00		6
ATOM	16217	CD1			37.627	79.330	59.087	1.00		6
ATOM	16218		PHE G		35.980	80.430	57.775	1.00		6
MOTA	16219	CE1			38.597	79.700	58.200	1.00		6
MOTA	16220	CE2	PHE G		36.940	80.805	56.884	1.00		6
MOTA	16221	CZ	PHE G		38.255	80.441	57.091	1.00		6
ATOM ATOM	16222	C	PHE G		33.076	80.076	60.617	1.00		6
ATOM	16223	O	PHE G		32.259	80.793	60.041	1.00		8
ATOM	16224 16225	N	THR G THR G		32.737 31.350	78.994 78.581	61.310 61.458	$1.00 \\ 1.00$		7
ATOM	16225	CA CB	THR G		31.350	78.581 77.198	62.091	1.00		6 6
ATOM	16227	OG1	THR G		29.894	76.852	62.320	1.00		8
ATOM	16228	CG2	THR G		32.012	77.197	63.406	1.00		6
ATOM	16229	CGZ	THR G		30.531	79.550	62.319	1.00		6
ATOM	16230	0	THR G		29.306	79.632	62.190	1.00		8
ATOM	16231	N	LEU G		31.209	80.277	63.199	1.00		7
211 011	- V - V -	TA	110 C	<i>→</i> ±±	71.207	00.277	00.100	1.00	37.07	,

ATOM ATOM ATOM	16232 16233 16234	CA CB CG	LEU G LEU G	941 941	30.542 31.481 31.201	81.229 81.684 81.199	64.071 65.169 66.582	1.00 55.80 1.00 17.59 1.00 14.62	6 6 6
ATOM ATOM	16235 16236	CD1 CD2	LEU G LEU G		29.720 32.093	80.889 80.008	66.690 66.908	1.00 13.87 1.00 13.87	6 6
ATOM	16237	CDZ	LEU G		30.050	82.458	63.338	1.00 56.54	6
MOTA	16238	Ō	LEU G		28.921	82.897	63.539	1.00 58.13	8
MOTA	16239	N	SER G	942	30.912	83.031	62.507	1.00 38.22	7
MOTA	16240	CA	SER G		30.550	84.221	61.754	1.00 36.17	6
MOTA	16241	CB	SER G		31.767	84.747	60.976	1.00 15.75	6
ATOM ATOM	16242 16243	OG C	SER G SER G		32.160 29.395	83.849 83.936	59.956 60.795	1.00 13.87 1.00 36.01	8 6
ATOM	16244	0	SER G		28.696	84.851	60.733	1.00 36.77	8
MOTA	16245	Ň	THR G		29.188	82.663	60.467	1.00 43.57	7
MOTA	16246	CA	THR G		28.117	82.270	59.551	1.00 44.46	6
MOTA	16247	CB	THR G		28.366	80.876	58.957	1.00 64.62	6
MOTA	16248	OG1	THR G		29.587	80.890	58.211	1.00 68.58	8
ATOM	16249	CG2	THR G		27.227	80.479	58.035	1.00 64.19 1.00 43.28	6
ATOM ATOM	16250 16251	C 0	THR G		26.754 25.882	82.262 83.053	60.226 59.869	1.00 43.28 1.00 43.43	6 8
ATOM	16251	N	THR G		26.568	81.356	61.183	1.00 45.45	7
MOTA	16253	CA	THR G		25.310	81.262	61.907	1.00 33.37	6
MOTA	16254	CB	THR G	944	25.474	80.478	63.197	1.00 16.49	6
MOTA	16255	OG1	THR G		26.259	81.242	64.118	1.00 16.86	8
ATOM	16256	CG2	THR G		26.162	79.181	62.935	1.00 15.53	6
ATOM ATOM	16257 16258	C 0	THR G		24.866 23.706	82.669 83.047	62.288 62.105	1.00 33.77 1.00 34.79	6 8
ATOM	16259	N	SER G		25.700	83.437	62.818	1.00 34.99	7
ATOM	16260	CA	SER G		25.561	84.804	63.242	1.00 35.77	6
MOTA	16261	CB	SER G		26.860	85.411	63.765	1.00 60.62	6
ATOM	16262	OG	SER G		27.357	84.637	64.841	1.00 60.25	8
ATOM	16263	C	SER G SER G		24.973 24.229	85.660 86.604	62.120 62.372	1.00 35.50 1.00 33.61	6 8
ATOM ATOM	16264 16265	O N	GLY G		25.321	85.325	60.883	1.00 47.59	7
ATOM	16266	CA	GLY G		24.804	86.044	59.727	1.00 47.53	6
ATOM	16267	С	GLY G	946	24.998	87.548	59.675	1.00 47.26	6
ATOM	16268	0	GLY G		24.105	88.305	60.060	1.00 47.50	8
MOTA	16269	N	ILE G		26.148	87.984	59.169	1.00 13.87 1.00 13.87	7 6
ATOM ATOM	16270 16271	CA CB	ILE G		26.434 27.708	89.403 89.782	59.086 59.957	1.00 13.87 1.00 16.32	6
ATOM	16272		ILE G		27.735		61.166		6
ATOM	16273		ILE G		28.995	89.609	59.166	1.00 19.05	6
ATOM	16274	CD1			29.408	90.836	58.371	1.00 22.06	6
ATOM	16275	C	ILE G		26.649	89.771	57.628	1.00 13.87	6
ATOM ,	16276 16277	O TA	ILE G		27.322 26.069	89.053 90.876	56.927 57.175	1.00 13.87 1.00 18.81	8 7
ATOM ATOM	16277	N CA	ILE G		26.226	91.336	55.794	1.00 21.25	6
ATOM	16279	CB	ILE G		24.972	91.133	54.955	1.00 69.85	6
ATOM	16280	CG2	ILE G		24.818	89.694	54.598	1.00 73.01	6
ATOM	16281	CG1	ILE G		23.763	91.669	55.709	1.00 73.14	6
MOTA	16282	CD1	ILE G		23.483 26.475	90.985 92.825	57.045 55.814	1.00 75.70 1.00 21.28	6 6
ATOM ATOM	16283 16284	C O	ILE G		26.473	93.388	56.876	1.00 21.28	8
ATOM	16285	N	THR G		26.426	93.466	54.645	1.00 24.02	7
ATOM	16286	CA	THR G	949	26.633	94.915	54.535	1.00 24.53	6
ATOM	16287	CB	THR G	949	27.927	95.319	53.733	1.00 13.87	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	16288 16289 16291 16292 16293 16293 16293 16293 16293 16293 163303 16305 163303 163303 163313 163313 163313 163313 163323 163323 163323 163323 163323 163323 163323 163323 163323 163323 16333 16333 1633		THR G G G G G G G G G G G G G G G G G G G	94490000001111122222223333333444445555566666	23.877 21.946 21.740 20.234 20.125 19.436 17.998 22.469 23.253 22.196 22.841 22.499 23.227 24.437 22.593 24.336 25.019 24.836 25.447 27.152 26.366 25.447 27.511 27.727 27.441 26.692 26.479 25.515 25.330 23.988	101.313 102.006 102.094 102.431 100.499 101.126 99.205 98.408 96.923 96.033 96.248 95.104 98.604 97.836 99.637 100.046 98.880 101.172 101.399 101.852 102.989 102.607 103.985 104.786 103.895 104.681	54.612 53.081 53.730 52.539 54.365 53.612 54.368 53.381 55.154 56.037 54.247 53.451 53.941 53.941 53.955 55.632 56.989 54.970 56.355 57.570 58.410 58.125 57.570 58.125 57.761 58.125 57.761 58.125 57.761 58.125 57.761 58.125 57.761 56.749 56.745 56.749 56.745	1.00 13.87 1.00 13.87 1.00 27.51 1.00 28.51 1.00 53.04 1.00 57.03 1.00150.33 1.00153.09 1.00151.95 1.00149.50 1.00 56.42 1.00 57.15 1.00 36.84 1.00 39.04 1.00 37.91 1.00 40.65 1.00 43.79 1.00 54.20 1.00 54.70 1.00 54.70 1.00 54.49 1.00 53.89 1.00 46.09 1.00 47.02 1.00 66.77 1.00 68.11 1.00 67.37 1.00 68.11 1.00 67.37 1.00 68.56 1.00 38.59 1.00 37.99 1.00 68.56 1.00 38.59 1.00 37.99 1.00 68.56 1.00 38.59 1.00 37.99 1.00 68.56 1.00 38.59 1.00 37.99 1.00 68.56 1.00 38.32 1.00 36.88 1.00 74.92 1.00 77.22 1.00 43.28 1.00 78.26 1.00 78.73 1.00 52.05 1.00 53.27 1.00 42.34 1.00 43.43 1.00 42.43	8668766666876687666687666887666876668
MOTA MOTA	16328 16329	C 0	ALA G	955 955	26.692 26.122	103.985 104.786	55.992	1.00 78.26 1.00 78.73	8 7
MOTA MOTA	16332 16333	CB CG1	VAL G	956 956	25.330 23.988	104.058 104.458	60.169 60.745	1.00 42.34 1.00 43.43	6 6
ATOM ATOM ATOM ATOM	16334 16335 16336 16337	CG2 C O N	VAL G S VAL G S VAL G S ILE G S	956 956	25.865	106.144 106.528	58.981 60.026 57.989	1.00 42.43 1.00 54.00 1.00 54.46 1.00 56.68	6 8 7
ATOM ATOM ATOM	16338 16339 16340	CA CB CG2	ILE G	957 957	25.838 25.282 25.523	108.390 109.101 110.599	58.056 56.815 56.928	1.00 56.95 1.00 58.57 1.00 59.02	6 6
ATOM ATOM ATOM	16341 16342 16343	CG1 CD1 C	ILE G	957		108.512 108.989 109.057	55.559 54.262 59.311	1.00 59.51 1.00 60.62 1.00 56.81	6 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	16344 16345 16346 16347 16348 163353 163353 163355 163355 163355 163355 163363 163363 163363 163363 163363 163377 16337 163377 1	O N CD CA CB CG C O O C O O C O O C C C C C C C C C	PRO G G G G G G G G G G G G G G G G G G G	958 958 958 958 959 959 959 960 960 961 961 961 961	26.141 27.599 25.676 26.973 27.899 24.902 25.359 23.728 22.896 21.656 20.520 19.508 18.931 19.283 23.740 23.623	109.115 109.581 109.730 110.235 110.541 110.835 111.493 112.318 111.637 112.809 112.767 113.714 113.074 113.074 114.035 115.083 113.875 114.956 114.532 113.381 112.681 111.979 112.837 115.461 116.156 115.111 115.575 114.759 115.468 116.156 115.111 115.575 114.759 115.100 114.268 114.571 113.812 117.008 117.904 117.210 118.539 118.539 118.536 117.716	59.4 50.1 60.1	1851 1851 1851 1851 1851 1851 1851 1851	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	47.27 33.40 48.03 33.62 49.28 49.28 881.19 881.33 881.67 675 69991.73 89991.73 49.29 40.29 40	876666876668868766668868766667687666
MOTA	16378	0	LYS G S	961	27.611	117.904	59.6	571	1.00	89.78	8
	16380		GLN G S	962	24.965	118.539	59.(092	1.00	66.75	6
MOTA	16383	CD	GLN G	962	21.161	118.076	58.3	341	1.00	97.30	6
MOTA MOTA	16384 16385	OE1 NE2	GLN G S		20.776	119.133 117.199	57.8 58.8			96.62 97.91	8 7
MOTA	16386	С	GLN G	962	25.655	119.536	60.0	016	1.00	66.49	6
MOTA MOTA	16387 16388	O N	GLN G S		26.519 25.291	120.282 119.542	59.5 61.2			65.94 71.70	8 7
ATOM	16389	CA	ARG G	963	25.919	120.461	62.2	247	1.00	71.44	6
MOTA MOTA	16390 16391	CB CG	ARG G S		25.975 27.036	119.837 120.428	63.6 64.6			61.60 60.57	6 6
ATOM	16392	CD	ARG G	963	27.098	119.665	65.9	944	1.00	61.13	6
ATOM	16393	NE CZ	ARG G S		28.468 28.787		66.4 67.6			61.92	7 6
MOTA MOTA	16394 16395		ARG G S		27.838	118.539	68.4	444	1.00	63.19	7
ATOM	16396	NH2			30.059		67.9			61.97 71.22	7 6
ATOM ATOM	16397 16398	C 0	ARG G		27.322 27.583	120.806 121.953	61.7 61.4			71.34	8
MOTA	16399	N	TYR G		28.206		61.6		1.001	07.91	7

ATOM ATOM		CA CB	TYR G 96 TYR G 96		9.577 0.375	120.052 118.751	61.192 61.153		.06.93 68.73	6 6
ATOM		CG	TYR G 96			118.109	62.503	1.00	68.38	6
ATOM		CD1	TYR G 96	1 2		117.488	63.157	1.00	68.40	6
ATOM		CE1	TYR G 96			116.859	64.383		68.74	6
ATOM		CD2	TYR G 96		1.833	118.095	63.113		68.22	6
ATOM		CE2	TYR G 96		2.027	117.468 116.849	64.342 64.971		68.53 69.16	6 6
ATOM ATOM		CZ OH	TYR G 96 TYR G 96		0.952 1.125	116.207	66.176		69.81	8
ATOM		C	TYR G 96		9.600	120.706	59.814		.06.42	6
ATOM		0	TYR G 96			121.786	59.644		06.89	8
ATOM		Ň	LEU G 96		8.997	120.044	58.828		84.86	7
ATOM		CA	LEU G 96		8.916	120.599	57.480	1.00	84.27	6
ATOM	16413	CB	LEU G 96		8.087	119.682	56.579		49.14	6
ATOM		CG	LEU G 96		8.766	119.012	55.383		47.71	6
ATOM		CD1			8.853	119.988	54.234	1.00		6
ATOM		CD2	LEU G 96			118.507 121.911	55.786 57.706		47.30 84.16	6 6
ATOM ATOM		C 0	LEU G 96 LEU G 96			121.911	58.795		84.72	8
ATOM		N	GLU G 96			122.784	56.708		42.27	7
ATOM		CA	GLU G 96		7.445	124.070	56.904		42.38	6
ATOM		CB	GLU G 96		5.981	123.871	57.303		91.78	6
ATOM	16422	CG	GLU G 96	5 2	5.298	125.180	57.596		94.62	6
ATOM		CD	GLU G 96		5.716	126.263	56.616		96.45	6
ATOM		OE1	GLU G 96		5.489	126.086	55.401		97.78	8
ATOM		OE2	GLU G 96		6.279	127.285	57.058 57.979	1.00	97.51	8 6
ATOM ATOM		C O	GLU G 96 GLU G 96		8.160 8.475	124.889 126.045	57.757	1.00	41.33 40.16	8
ATOM		N	GLU G 96		8.377	124.313	59.158	1.00	36.77	7
ATOM		CA	GLU G 96		9.135	125.021	60.166		35.92	6
ATOM		CB	GLU G 96	7 2:	9.340	124.181	61.421		51.25	6
ATOM		CG	GLU G 96		8.196	124.274	62.402	1.00	51.43	6
ATOM		CD	GLU G 96		8.528	123.686	63.756	1.00	51.72	6
ATOM		OE1			9.613 7.693	123.083 123.828	63.915 64.670	$1.00 \\ 1.00$	51.54 53.39	8 8
ATOM ATOM		OE2 C	GLU G 96 GLU G 96		0.454	125.196	59.435		35.75	6
ATOM		0	GLU G 96		1.121	126.227	59.534		35.73	8
ATOM		N	ALA G 96		0.820	124.170	58.679	1.00	38.97	7
ATOM		CA	ALA G 96	3	2.030	124.236	57.885	1.00	40.14	6
ATOM		CB	ALA G 96		2.121		56.962	1.00	96.20	6
ATOM		C	ALA G 96			125.509	57.073		41.00	6
ATOM		O N	ALA G 96			126.254 125.746	56.836 56.670		40.00 59.01	8 7
ATOM ATOM		N CA	ASP G 96 ASP G 96			126.922	55.888		61.20	6
ATOM		CB	ASP G 96			126.725	55.210		93.07	6
ATOM		CG	ASP G 96			125.999	53.892		95.50	6
ATOM		OD1	ASP G 96	2		126.548	52.971		96.94	8
ATOM			ASP G 96			124.882	53.776		97.48	8
ATOM		C	ASP G 96			128.185	56.737		61.41	6
ATOM		0	ASP G 96			128.742	56.997		60.85	8 7
ATOM ATOM		N CA	ARG G 97 ARG G 97			128.612 129.832	57.175 57.968		70.79	6
ATOM		CB	ARG G 97			129.543	59.355		74.41	6
ATOM		CG	ARG G 97) 2	9.233	129.035	60.404	1.00	76.46	6
ATOM	16454	CD	ARG G 97) 2	8.655	128.957	61.822		76.91	6
ATOM	16455	NE	ARG G 97) 2	9.668	128.497	62.779	1.00	77.99	7

ATOM ATOM ATOM	16456 16457 16458	CZ NH1 NH2	ARG G ARG G ARG G	970 970 970	29.459 28.268 30.448	128.318 128.559 127.892	64.081 64.617 64.852	1.00 79.41 1.00 79.74 1.00 79.74	6 7 7
ATOM	16459	C	ARG G		30.197 30.385	130.524 131.605	58.117 57.574	1.00 70.09 1.00 71.11	6 8
ATOM ATOM	16460 16461	O N		970	31.133	129.881	58.822	1.00 71.11	7
ATOM	16462	CA		971	32.486	130.413	59.046	1.00 36.61	6
MOTA	16463	CB	LYS G	971	33.105	129.788	60.301	1.00 73.91	6
ATOM	16464	CG	LYS G	971	32.341	130.102	61.587	1.00 75.60	6
ATOM ATOM	16465 16466	CD CE		971 971	33.044 32.385	129.546 130.050	62.813 64.079	1.00 75.54 1.00 76.02	6 6
ATOM	16467	NZ		971	33.199	129.734	65.278	1.00 75.83	7
MOTA	16468	C	LYS G	971	33.402	130.175	57.846	1.00 36.88	6
ATOM	16469	0		971	34.606	129.955	57.994	1.00 35.74	8
MOTA	16470 16471	N CA	LEU G LEU G	972	32.789 33.442	130.232 130.060	56.663 55.367	1.00 61.28 1.00 61.61	7 6
ATOM ATOM	16471 16472	CB	LEU G		32.740	128.959	54.562	1.00 79.55	6
ATOM	16473	CG	LEU G		33.582	127.909	53.825	1.00 79.97	6
MOTA	16474	CD1		972	32.643	126.972	53.087	1.00 79.85	6
ATOM	16475	CD2		972	34.552	128.566	52.853	1.00 79.58 1.00 61.34	6
ATOM ATOM	16476 16477	С О	LEU G LEU G	972 972	33.258 34.223	131.411 132.037	54.667 54.227	1.00 61.34 1.00 60.98	6 8
ATOM	16478	N	ARG G		32.007	131.852	54.561	1.00 56.08	7
ATOM	16479	CA	ARG G	973	31.716	133.152	53.967	1.00 56.75	6
ATOM	16480	CB	ARG G		30.212	133.408	53.922	1.00102.76	6
ATOM ATOM	16481 16482	CG CD	ARG G	973 973	29.465 27.964	132.463 132.679	53.019 53.099	1.00103.34 1.00104.23	6 6
ATOM	16483	NE	ARG G		27.265	131.758	52.207	1.00104.23	7
ATOM	16484	CZ	ARG G	973	25.945	131.673	52.096	1.00106.52	6
MOTA	16485	NH1	ARG G		25.165	132.461	52.826	1.00107.03	7
ATOM ATOM	16486 16487	NH2 C	ARG G ARG G		25.407 32.372	130.794 134.132	51.258 54.917	1.00107.13 1.00 56.49	7 6
ATOM	16488	0	ARG G		32.635	135.269	54.582	1.00 56.40	8
ATOM	16489	N		974	32.616	133.671	56.130	1.00 49.87	7
MOTA	16490	CA	GLN G		33.283	134.491	57.108	1.00 50.68	6
MOTA	16491 16492	CB CG	GLN G GLN G	974 974	33.125 31.747	133.904 134.139	58.515 59.138	1.00 69.44 1.00 69.56	6 6
ATOM ATOM	16492	CD	GLN G	974	31.676	133.683	60.586	1.00 69.08	6
ATOM	16494	OE1	GLN G	974	32.574	133.960	61.380	1.00 68.22	8
ATOM	16495	NE2	GLN G		30.596	132.994	60.937	1.00 69.06	7
ATOM ATOM	16496 16497	C	GLN G GLN G			134.489 135.157	56.704 57.316	1.00 51.23 1.00 51.28	6 8
ATOM	16497	O N	ILE G		35.070		55.668	1.00 31.28	7
MOTA	16499	CA	ILE G		36.442	133.648	55.195	1.00 74.05	6
MOTA	16500	CB	ILE G		36.955	132.174	55.138	1.00 66.18	6
MOTA	16501	CG2	ILE G		36.995 38.344	131.660	53.695 55.778	1.00 66.25 1.00 66.26	6 6
ATOM ATOM	16502 16503	CG1 CD1	ILE G		39.334		55.778	1.00 66.26 1.00 67.69	6
MOTA	16504	C	ILE G		36.515	134.263	53.816	1.00 74.60	6
MOTA	16505	0	ILE G		37.445		53.520	1.00 75.05	8
MOTA	16506 16507	N CA	GLU G GLU G		35.526 35.482	133.953 134.483	52.978 51.617	1.00 60.49 1.00 61.71	7 6
ATOM ATOM	16508	CB	GLU G		34.583		50.718	1.00 01.71	6
ATOM	16509	CG	GLU G	976	34.937	132.127	50.690	1.00115.06	6
MOTA	16510	CD	GLU G		34.323		49.501	1.00114.53	6
MOTA	16511	OE1	GLU G	976	33.257	131.803	49.002	1.00113.15	8

3 mo34	16510	0.00	OT 11 O	076	24 005	130.361	49.073	1.00114.48	0
MOTA	16512	OE2	GLU G						8
ATOM	16513	C	GLU G		34.979	135.926	51.627	1.00 61.73	6
ATOM	16514	0	GLU G		34.806	136.539	50.575	1.00 61.75	8
ATOM	16515	N	GLN G		34.735	136.449	52.828	1.00 89.50	7
MOTA	16516	CA		977	34.290	137.829	53.032	1.00 89.42	6
ATOM	16517	СВ		977	32.946	137.878	53.767	1.00129.61	6
MOTA	16518	CG	GLN G		31.729	137.620	52.876	1.00131.76	6
ATOM	16519	$^{\mathrm{CD}}$	GLN G		31.061	138.901	52.404	1.00132.90	6
MOTA	16520	OE1	GLN G		31.715	139.799	51.877	1.00134.36	8
ATOM	16521	NE2		977	29.749	138.988	52.591	1.00133.24	7
ATOM	16522	С	GLN G		35.369	138.483	53.877	1.00 88.52	6
ATOM	16523	0	GLN G		35.669	139.661	53.716	1.00 89.61	8
MOTA	16524	N	ALA G		35.950	137.693	54.777	1.00 53.12	7
ATOM	16525	CA	ALA G		37.041	138.147	55.636	1.00 50.88	6
MOTA	16526	CB	ALA G	978	37.266	137.167	56.776	1.00 47.24	6
MOTA	16527	С	ALA G	978	38.292	138.220	54.765	1.00 49.52	6
ATOM	16528	0	ALA G	978	39.414	137.974	55.220	1.00 48.83	8
MOTA	16529	N	TYR G	979	38.063	138.537	53.497	1.00 43.07	7
ATOM	16530	CA	TYR G	979	39.110	138.674	52.503	1.00 42.64	6
MOTA	16531	CB	TYR G	979	39.216	137.416	51.629	1.00 64.45	6
ATOM	16532	CG	TYR G	979	40.275	137.502	50.543	1.00 63.51	6
ATOM	16533	CD1	TYR G	979	41.590	137.845	50.854	1.00 62.98	6
MOTA	16534	CE1	TYR G	979	42.562	137.945	49.862	1.00 64.04	6
MOTA	16535	CD2	TYR G	979	39.955	137.255	49.203	1.00 63.09	6
MOTA	16536	CE2	TYR G	979	40.922	137.353	48.196	1.00 63.46	6
MOTA	16537	CZ	TYR G	979	42.227	137.703	48.533	1.00 64.43	6
MOTA	16538	OH	TYR G	979	43.195	137.845	47.552	1.00 65.47	8
MOTA	16539	С	TYR G	979	38.681	139.850	51.662	1.00 42.30	6
MOTA	16540	0	TYR G	979	39.494	140.685	51.296	1.00 41.61	8
MOTA	16541	N	GLU G	980	37.392	139.920	51.357	1.00 48.04	7
MOTA	16542	CA	GLU G	980	36.884	141.034	50.572	1.00 48.99	6
MOTA	16543	CB	GLU G	980	35.416	140.810	50.204	1.00 54.42	6
MOTA	16544	CG	GLU G	980	35.198	139.531	49.407	1.00 54.26	6
ATOM	16545	CD	GLU G	980	33.750	139.310	49.018	1.00 54.22	6
MOTA	16546	OE1	GLU G	980	32.893	139.196	49.922	1.00 52.78	8
ATOM	16547	OE2	GLU G	980	33.471	139.246	47.798	1.00 54.74	8
MOTA	16548	С	GLU G	980	37.041	142.233	51.487	1.00 49.98	6
MOTA	16549	0	GLU G		36.668	143.353	51.140	1.00 50.15	8
ATOM	16550	N	MET G	981	37.610	141.957	52.662	1.00 58.41	7
ATOM	16551	CA		981	37.885	142.941	53.703	1.00 59.37	6
MOTA	16552	CB	MET G	981		142.382	55.068	1.00 62.35	6
ATOM	16553	CG	MET G	981		142.107	55.230	1.00 61.41	6
ATOM	16554	SD	MET G	981		143.533	55.807	1.00 61.27	16
ATOM	16555	CE	MET G	981		143.514	57.569	1.00 60.29	6
MOTA	16556	С	MET G	981	39.372	143.239	53.701	1.00 60.67	6
MOTA	16557	0	MET G			142.720	52.871	1.00 60.62	8
ATOM	16558	N	GLY G	982	39.810		54.646	1.00136.85	7
MOTA	16559	CA	GLY G		41.218		54.709	1.00138.53	6
MOTA	16560	С	GLY G		42.059		55.397	1.00138.70	6
MOTA	16561	0	GLY G		43.288		55.429	1.00138.31	8
MOTA	16562	N	PHE G			142.312	55.938	1.00 99.07	7
MOTA	16563	CA	PHE G		42.136		56.643	1.00 99.25	6
MOTA	16564	CB	PHE G		41.452		57.985	1.00106.86	6
ATOM	16565	CG	PHE G		41.470		58.938	1.00107.86	6
MOTA	16566	CD1	PHE G		40.489		58.871	1.00107.70	6
MOTA	16567	CD2	PHE G	983	42.538	142.292	59.815	1.00108.55	6

ATOM 16621 NE ARG G 989 39.707 133.797 49.983 1.00 81.51 7	ATOM 16621 NE ARG G 989 39.707 133.797 49.983 1.00 81.51 7	ATOM 16620 CD ARG G 989 40.959 134.300 50.526 1.00 80.65 6
ATOM 16622 CZ ARG G 989 39.588 132.627 49.372 1.00 82.43 6 ATOM 16623 NH1 ARG G 989 40.650 131.839 49.221 1.00 82.82 7		ATOM 16621 NE ARG G 989 39.707 133.797 49.983 1.00 81.51 7 ATOM 16622 CZ ARG G 989 39.588 132.627 49.372 1.00 82.43 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	16624 16625 16626 16627 16628 16629 16630 16631 16632 16633 16635 16635	NH2 C O N CA CB CG CD1 CE1 CD2 CE2 CZ	ARG G ARG G TYR G TYR G TYR G TYR G TYR G TYR G TYR G TYR G TYR G	989 989 990 990 990 990 990 990 990	43.125 42.602 43.524 43.388 44.283 44.767 44.056 44.493 45.934 46.379 45.656	132.244 131.487 130.728 131.106 129.723 129.459 128.030 127.088 125.777 127.620 126.315 125.397 124.098	48.920 52.863 53.661 51.657 51.230 50.021 49.903 49.159 49.058 50.548 50.458 49.711 49.619	1.00 83.11 1.00 47.79 1.00 46.81 1.00100.39 1.00 99.27 1.00 48.00 1.00 47.49 1.00 46.75 1.00 46.56 1.00 47.38 1.00 47.53 1.00 46.98 1.00 48.16	7 6 8 7 6 6 6 6 6 6 6 6 8
ATOM	16637	C	TYR G			128.823	52.386	1.00 99.19	6
ATOM	16638	Ö	TYR G		43.080	127.907	52.763	1.00100.55	8
ATOM	16639	N	ASP G	991		129.097	52.948	1.00 45.47	7
ATOM	16640	CA		991		128.315	54.061	1.00 44.34	6
ATOM	16641	CB	ASP G			128.933	54.558	1.00 71.37	6
ATOM	16642	CG	ASP G			128.454	53.783	1.00 71.72	6 8
ATOM	16643		ASP G			128.194 128.339	52.572 54.378	1.00 71.11 1.00 70.92	8
MOTA	16644	OD2	ASP G ASP G		49.001	128.154	55.224	1.00 70.32	6
ATOM ATOM	16645 16646	C O	ASP G			127.505	56.224	1.00 44.24	8
ATOM	16647	N	GLN G			128.761	55.090	1.00 67.50	7
MOTA	16648	CA		992		128.673	56.097	1.00 66.59	6
ATOM	16649	СВ	GLN G		41.524	129.984	56.175	1.00 87.39	6
MOTA	16650	CG	GLN G		40.962		57.541	1.00 88.50	6
MOTA	16651	CD	GLN G			130.476	58.579	1.00 89.39	6
ATOM	16652	OE1	GLN G			131.318	58.427	1.00 89.27	8 7
MOTA	16653	NE2	GLN G			129.685 127.576	59.641 55.561	1.00 90.51 1.00 64.89	6
ATOM	16654	C O	GLN G GLN G		41.417 41.330	127.576	56.142	1.00 64.83	8
ATOM ATOM	16655 16656	N	VAL G		40.788	127.867	54.422	1.00 41.54	7
ATOM	16657	CA	VAL G		39.888	126.945	53.728	1.00 39.16	6
MOTA	16658	CB	VAL G			127.310	52.241	1.00 93.99	6
MOTA	16659	CG1	VAL G		38.581	126.573	51.626	1.00 96.58	6
MOTA	16660	CG2	VAL G		39.609	128.816	52.088	1.00 94.44	6
MOTA	16661	С	VAL G		40.393	125.512	53.816	1.00 36.63	6
MOTA	16662	0	VAL G		39.606		53.844	1.00 35.42 1.00 39.68	8 7
ATOM	16663	N	ILE G			125.367 124.059	53.849 53.955		6
ATOM	16664 16665	CA CB	ILE G			124.059 124.050	53.473	1.00 37.87	6
ATOM ATOM	16666	CG2	ILE G			122.772	53.932	1.00 46.67	6
ATOM	16667	CG2	ILE G			124.180	51.948	1.00 45.87	6
ATOM	16668	CD1	ILE G			123.050	51.185	1.00 46.35	6
ATOM	16669	C	ILE G		42.266	123.649	55.405	1.00 37.18	6
MOTA	16670	0	ILE G			122.619	55.731	1.00 37.74	8
MOTA	16671	\mathbf{N}	GLN G			124.451	56.284	1.00 54.87	7
MOTA	16672	CA	GLN G			124.096	57.698	1.00 55.60	6
ATOM	16673	CB	GLN G			125.227	58.558	1.00 72.70	6 6
ATOM	16674	CG	GLN G			124.826 125.986	60.008 60.854	1.00 74.66 1.00 75.97	6
MOTA	16675 16676	CD OE1	GLN G GLN G			126.616	60.554	1.00 75.37	8
ATOM ATOM	16677	NE2				126.282	61.917	1.00 76.58	7
ATOM	16678	C	GLN G			123.809	58.109	1.00 54.89	6
MOTA	16679	0	GLN G			122.890	58.883	1.00 54.68	8
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	16681 16682 16683 16683 166884 166885 166887 166889 1666991 1666993 1666993 1666997 1667001 167703 167703 167707 167707 167707 167709 167711 16711	N CA CB CG CD1 CD2 C O N CA CB CG2 C CZ3 CH2 C O N CA CB OG1 CG2 C CC2 C C CCC CCC CCC CCC CCC CCC C	LEU G 996 LEU G 997 TRP G 997	39.064 38.231 36.718 36.220 36.077 38.646 38.664 38.292 37.853 37.819 36.620 35.239 34.470 34.576 36.626 35.340 33.069 33.176 32.443 38.703 38.178 40.010 40.857 42.329 42.854 43.133 40.351 40.033	124.604 124.428 125.439 125.255 125.289 126.339 123.016 122.109 122.835 121.541 121.512 122.245 121.896 122.860 120.859 123.377 123.751 122.819 120.817 121.792 120.414 119.360 120.627 119.360 120.323 118.787 119.192 118.044 120.183 119.976 121.305 121.456	57.578 57.865 57.073 57.122 58.562 56.290 57.480 58.309 56.210 55.737 54.211 53.646 53.826 53.135 54.504 52.874 52.564 53.777 56.283 56.630 56.396 57.050 55.767 57.587 58.281 58.526 59.159 60.525 61.304 62.296	1.00 44.32 1.00 41.61 1.00 13.87 1.00 13.87 1.00 13.87 1.00 40.91 1.00 40.33 1.00 41.58 1.00 40.97 1.00 27.79 1.00 27.79 1.00 23.12 1.00 23.12 1.00 23.12 1.00 23.39 1.00 23.69 1.00 23.69 1.00 23.69 1.00 23.69 1.00 23.58 1.00 23.39 1.00 23.49 1.00 23.23 1.00 43.11 1.00 44.67 1.00 20.39 1.00 22.56 1.00 67.19 1.00 69.15 1.00 67.83 1.00 23.47 1.00 38.13 1.00 40.51 1.00 54.18 1.00 55.64	76666687666666676666876686687666
MOTA MOTA	16713 16714	CD OE1	GLU G 999 GLU G 999	41.647 40.940	122.829 123.858	62.238 62.316	1.00 56.29 1.00 55.80	6 8
MOTA	16715	OE2	GLU G 999	42.893	122.875	62.122	1.00 56.56	8
ATOM	16716	C	GLU G 999 GLU G 999		119.355 118.397	60.607 61.344	1.00 40.73 1.00 40.13	6 8
ATOM ATOM	16717 16718	O N	THR G1000		119.888	59.862	1.00 47.03	7
ATOM	16719	CA	THR G1000	36.092	119.338	59.933	1.00 48.94	6
MOTA	16720	CB	THR G1000		120.153	59.117	1.00 63.26	6
ATOM	16721	OG1			119.545	59.228 57.658	1.00 62.73 1.00 63.98	8 6
MOTA	16722 16723	CG2 C	THR G1000		120.198 117.912	59.433	1.00 50.13	6
ATOM ATOM	16723	0	THR G1000		117.032	60.064	1.00 51.34	8
ATOM	16725	Ň	THR G1001		117.677	58.299	1.00 83.66	7
MOTA	16726	CA	THR G1001	36.792	116.334	57.745	1.00 84.47	6
MOTA	16727	CB	THR G1001			56.683	1.00 44.60	6
ATOM	16728	OG1			116.691 114.784	55.426 56.541	1.00 42.63 1.00 43.77	8 6
ATOM ATOM	16729 16730	CG2 C	THR G1001 THR G1001			58.865	1.00 43.77	6
ATOM	16731	Õ	THR G1001		114.318	58.977	1.00 84.92	8
ATOM	16732	N	GLU G1002	38.058	115.694	59.702	1.00 47.50	7
MOTA	16733	CA	GLU G1002		114.839	60.804	1.00 48.08	6
ATOM	16734	CB	GLU G1002 GLU G1002		115.294 115.292	61.377 60.367	1.00163.45 1.00168.56	6 6
ATOM	16735	CG	GLU GIUUZ	40.744	110.696	00.507	1.00100.00	5

MOTA MOTA	16736 16737	CD OE1		G1002 G1002		115.640 114.848	60.990 61.815	1.00171.31 1.00173.00	6 8
ATOM	16738	OE2		G1002 G1002		116.707	60.657	1.00173.33	8
MOTA	16739	C		G1002		114.791	61.918	1.00 47.16	6
MOTA	16740	Ō		G1002		113.810	62.659	1.00 47.55	8
MOTA	16741	N	LYS	G1003	36.587	115.831	62.028	1.00 68.69	7
ATOM	16742	CA	LYS	G1003	35.569	115.906	63.079	1.00 68.11	6
ATOM	16743	CB	LYS	G1003	35.285	117.370	63.426	1.00179.69	6
MOTA	16744	CG		G1003		118.147	63.966	1.00183.17	6
MOTA	16745	CD		G1003		117.745	65.392	1.00184.78	6
MOTA	16746	CE		G1003		118.666	65.951	1.00186.16	6
ATOM	16747	NZ		G1003		118.382	67.378	1.00185.20	7
ATOM	16748	C		G1003		115.199	62.765	1.00 65.91	6 8
MOTA	16749	O N		G1003		115.024 114.813	63.649	1.00 67.12 1.00 19.70	8 7
MOTA ATOM	16750 16751	N CA		G1004 G1004		114.013 114.109	61.511 61.119	1.00 19.70	6
ATOM	16751	CB		G1004 G1004		114.109	59.664	1.00 13.33	6
ATOM	16753	CG1		G1004		113.884	59.414	1.00 17.86	6
ATOM	16754	CG2		G1004		115.812	59.307	1.00 18.60	6
MOTA	16755	C		G1004		112.631	61.263	1.00 13.87	6
MOTA	16756	Ö		G1004		111.818	61.542	1.00 13.87	8
ATOM	16757	N		G1005		112.299	61.038	1.00 48.60	7
MOTA	16758	CA	THR	G1005	34.888	110.946	61.165	1.00 48.72	6
MOTA	16759	CB	THR	G1005		110.920	60.928	1.00 42.42	6
MOTA	16760	OG1		G1005		110.923	59.522	1.00 43.69	8
MOTA	16761	CG2		G1005		109.707	61.565	1.00 41.46	6
MOTA	16762	C		G1005		110.475	62.570	1.00 48.57	6
ATOM	16763	0		G1005		109.567	62.777	1.00 48.94	8
ATOM	16764	N		G1006		111.099	63.532 64.945	1.00 45.99 1.00 44.76	7 6
MOTA	16765 16766	CA CB		G1006 G1006		110.770 111.788	65.811	1.00 44.78	6
ATOM ATOM	16767	СБ СG		G1006		111.768	67.302	1.00113.20	6
ATOM	16768	CD		G1006		112.673	68.126	1.00118.86	6
ATOM	16769	OE1		G1006		113.840	68.000	1.00118.93	8
ATOM	16770	NE2		G1006		112.312	68.979	1.00119.91	7
ATOM	16771	С		G1006	33.652	110.787	65.283	1.00 42.67	6
ATOM	16772	0	GLN	G1006	33.211	110.183	66.259	1.00 41.89	8
MOTA	16773	N		G1007		111.504	64.470	1.00 24.56	7
ATOM	16774	CA		G1007		111.584	64.648	1.00 22.84	6
MOTA	16775	CB		G1007		112.756	63.873	1.00 67.16	6
ATOM	16776	C		G1007		110.273		1.00 21.77 1.00 20.96	6
ATOM	16777	O N		G1007 G1008		109.342 110.186	64.841 62.776	1.00 20.96	8 7
ATOM ATOM	16778 16779	N CA		G1008		108.958	62.152	1.00 37.03	6
ATOM	16780	CB		G1008		108.953	60.650	1.00 37.00	6
ATOM	16781	CG1		G1008		109.333	60.381	1.00 80.90	6
ATOM	16782			G1008		107.570	60.080	1.00 80.31	6
ATOM	16783	С		G1008		107.717	62.725	1.00 36.09	6
MOTA	16784	0		G1008	30.312	106.773	63.133	1.00 34.76	8
MOTA	16785	N		G1009		107.722	62.757	1.00 25.63	7
ATOM	16786	CA		G1009		106.572	63.260	1.00 26.46	6
ATOM	16787	CB		G1009		106.663	62.956	1.00 26.89	6
ATOM	16788	CG		G1009		105.329	62.848	1.00 24.42	6
ATOM	16789			G1009		104.695 104.619	61.621 63.989	1.00 23.72 1.00 23.78	6 6
ATOM	16790 16791			G1009 G1009		104.619	61.542	1.00 23.78	6
ATOM	16791	ヘロエ	LUL	GT003	JJ.044	T().3//	01.742	1.00 23.04	J

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	MO	16843	СВ			23.740	104.286					
	MO	16844	CG		G1015	23.239			8.976	1.00		6
	MO'	16845	OD1		G1015	22.355			9.777	1.00		8
PΑ	MO	16846	ND2		G1015		106.502		8.933		75.87	7
ΑT	MO	16847	С	ASN	G1015	24.825	102.113	3 6	7.582	1.00	56.29	6

ATOM 16849 N TYR G1016	ATOM	16848	0	A CIVI	G1015	25.439	102.595	66.635	1.00 56.98	8
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ATOM 16887 N PRO G1020 26.678 97.889 62.723 1.00 35.68 7 ATOM 16888 CD PRO G1020 27.066 98.923 63.688 1.00157.45 6 ATOM 16889 CA PRO G1020 27.318 98.114 61.441 1.00 34.69 6 ATOM 16890 CB PRO G1020 28.161 99.357 61.684 1.00156.72 6 ATOM 16891 CG PRO G1020 27.417 100.069 62.773 1.00158.71 6 ATOM 16892 C PRO G1020 28.137 96.863 61.226 1.00 32.82 6 ATOM 16893 O PRO G1020 29.106 96.604 61.932 1.00 31.89 8 ATOM 16894 N LEU G1021 27.704 96.051 60.281 1.00 42.00 7 ATOM 16895 CA LEU G1021 28.432 94.858 60.000 1.00 41.98 6 ATOM 16896 CB LEU G1021 27.552 93.915 59.200 1.00 99.92 6 ATOM 16897 CG LEU G1021 26.277 93.613 60.004 1.00103.21 6 ATOM 16898 CD1 LEU G1021 25.310 92.740 59.213 1.00104.59 6 ATOM 16899 CD2 LEU G1021 26.671 92.936 61.317 1.00103.00 6 ATOM 16900 C LEU G1021 29.620 95.388 59.222 1.00 41.58 6 ATOM 16901 O LEU G1021 30.272 94.671 58.456 1.00 42.23 8 ATOM 16902 N ALA G1022 29.874 96.680 59.449 1.00 52.95 7	MOTA	16885	C	ASN	G1019	25.757	96.928	62.575	1.00208.87	6
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ATOM 16889 CA PRO G1020 27.318 98.114 61.441 1.00 34.69 6 ATOM 16890 CB PRO G1020 28.161 99.357 61.684 1.00156.72 6 ATOM 16891 CG PRO G1020 27.417 100.069 62.773 1.00158.71 6 ATOM 16892 C PRO G1020 28.137 96.863 61.226 1.00 32.82 6 ATOM 16893 O PRO G1020 29.106 96.604 61.932 1.00 31.89 8 ATOM 16894 N LEU G1021 27.704 96.051 60.281 1.00 42.00 7 ATOM 16895 CA LEU G1021 28.432 94.858 60.000 1.00 41.98 6 ATOM 16896 CB LEU G1021 27.552 93.915 59.200 1.00 99.92 6 ATOM 16897 CG LEU G1021 26.277 93.613 60.004 1.00103.21 6 ATOM 16898 CD1 LEU G1021 25.310 92.740 59.213 1.00104.59 6 ATOM 16899 CD2 LEU G1021 26.671 92.936 61.317 1.00103.00 6 ATOM 16900 C LEU G1021 29.620 95.388 59.222 1.00 41.58 6 ATOM 16901 O LEU G1021 30.272 94.671 58.456 1.00 42.23 8 ATOM 16902 N ALA G1022 29.874 96.680 59.449 1.00 52.95 7	MOTA	16887	N							
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ATOM 10903 CA ALA G1022 30.9/9 9/.435 58.867 1.00 50.22 6										
	A.I.OM	16903	CA	АЬА	G1022	30.9/9	91.435	58.86/	1.00 50.22	б

ATOM ATOM	16904 16905	CB C	ALA G102 ALA G102		30.462 31.759		98.571		.940		13.87 49.94	6 6
MOTA	16906	0	ALA G102	22	32.563	} 9	98.930	59	.858	1.00	52.39	8
ATOM	16907	N	VAL G102		31.517		97.504		.251		42.90	7
MOTA	16908 16909	CA CB	VAL G102 VAL G102		32.216 31.247		97.986 98.611		.449		40.86 13.87	6 6
MOTA MOTA	16910	CG1	VAL G102		31.247		98.885		.810		13.87	6
MOTA	16911	CG2	VAL G102		30.732		99.904		.986		13.87	6
MOTA	16912	С	VAL G102		33.060) 9	96.936		.160		40.24	6
MOTA	16913	0	VAL G102		34.204		7.219		.503		39.61	8
MOTA	16914	N	MET G102		32.518		95.743		.399		35.27	7
ATOM ATOM	16915 16916	CA CB	MET G102		33.297 32.588		94.701		.072	1.00	36.89 70.11	6 6
ATOM	16917	CG	MET G102		31.097		3.437		.892		76.08	6
MOTA	16918	SD	MET G102		30.439		94.780		.866		82.04	16
ATOM	16919	CE	MET G102		30.639		94.123		.544		82.88	6
MOTA	16920	С	MET G102		34.608		94.603		.309		37.14	6
ATOM	16921	0	MET G102		35.690		94.445		.887		36.34	8
ATOM	16922	N	ALA G102 ALA G102		34.479 35.616		94.689 94.657		.989		64.65 62.51	7 6
ATOM ATOM	16923 16924	CA CB	ALA G102		35.148		94.774		.661		22.04	6
ATOM	16925	C	ALA G102		36.420		95.876		.480		61.26	6
MOTA	16926	Ō	ALA G102		37.446	5 9	95.774		.147		61.20	8
MOTA	16927	N	ALA G102		35.914		97.035		.072		34.88	7
ATOM	16928	CA	ALA G102		36.547		98.317		363	1.00		6
ATOM	16929 16930	CB C	ALA G102 ALA G102		35.501 37.247		99.429		.319		75.61 30.71	6 6
ATOM ATOM	16931	0	ALA G102		38.432		98.614		.803		28.71	8
ATOM	16932	N	SER G102		36.509		7.961		.760		22.46	7
ATOM	16933	CA	SER G102	27	37.064	1 9	97.937		.103		22.87	6
ATOM	16934	СВ	SER G102		35.969		98.095		.162	1.00		6
ATOM	16935	OG	SER G102		35.643 37.869		99.462		.383	1.00	32.08 22.83	8 6
ATOM ATOM	16936 16937	C O	SER G102 SER G102		37.865		96.251		.436 .577	1.00		8
ATOM	16938	N	GLY G102		38.592		96.154		.466	1.00		7
ATOM	16939	CA	GLY G102	28	39.384	1 9	94.976	64	.759		23.25	6
ATOM	16940	C	GLY G102		38.840		93.702		.152	1.00		6
ATOM	16941	0	GLY G102		37.960		3.049		.724	1.00		8
ATOM ATOM	16942 16943	N CA	ALA G102 ALA G102		39.388 39.008		93.362		.984	1.00	43.48 42.94	7 6
ATOM	16944	CB	ALA G102		37.492		92.038		1.162		114.37	6
ATOM	16945	C	ALA G102		39.560		92.324		.782		41.27	6
ATOM	16946	0	ALA G102		40.702		91.963		.535		40.25	8
ATOM	16947	N	ALA G103		38.743		92.851		.864		18.27	7
MOTA	16948	CA	ALA G103		39.154 38.833		93.059		3.471 7.668		17.47 13.87	6 6
MOTA MOTA	16949 16950	CB C	ALA G103		38.603		91.817		7.744		16.81	6
MOTA	16951	0	ALA G103		38.171		94.216		5.602		14.21	8
MOTA	16952	N	GLY G103		38.650		95.476		.399	1.00	24.11	7
MOTA	16953	CA	GLY G103		38.181		96.730		.809		27.61	6
MOTA	16954	C	GLY G103		39.156		97.870		3.097		28.66	6
ATOM ATOM	16955 16956	O N	GLY G103 ASN G103		40.355 38.671		97.632 99.086		3.049 3.394		29.08 31.32	8 7
MOTA	16957	CA	ASN G103		39.537		00.253		3.714		32.32	6
ATOM	16958	CB	ASN G103		40.711		0.293		7.742		40.11	6
MOTA	16959	CG	ASN G103		40.749) 1(01.546	56	.925	1.00	41.52	6

MOTA	16960	OD1	ASN G			102.629	57.457	1.00 40.09	8
MOTA	16961	ND2	ASN G			101.415	55.615	1.00 41.76	7
MOTA	16962	C	ASN G			101.605	58.710	1.00 33.63	6
ATOM	16963	0	ASN G			101.827	57.860	1.00 33.89	8 7
MOTA	16964	N	PRO G			102.534	59.643	1.00 61.40 1.00 25.12	6
ATOM	16965	CD	PRO G			102.397	60.588	1.00 25.12	6
ATOM	16966	CA	PRO G			103.868 104.346	59.813 61.132	1.00 62.26	6
MOTA	16967	CB	PRO G			104.346	61.051	1.00 24.15	6
MOTA	16968	CG C	PRO G			103.860	58.758	1.00 23.45	6
ATOM	16969		PRO G			104.930	58.575	1.00 66.07	8
MOTA	16970 16971	N O	GLN G			104.965	58.093	1.00 53.14	7
ATOM ATOM	16971	CA	GLN G			104.903	57.065	1.00 54.20	6
ATOM	16972	CB	GLN G			105.968	56.514	1.00 98.46	6
ATOM	16974	CG	GLN G			104.665	55.872	1.00102.25	6
MOTA	16975	CD	GLN G			104.849	54.848	1.00104.72	6
MOTA	16976	OE1	GLN G			105.501	55.118	1.00107.00	8
MOTA	16977	NE2	GLN G			104.274	53.660	1.00105.14	7
ATOM	16978	C	GLN G			105.712	55.939	1.00 52.80	6
ATOM	16979	Ö	GLN G			106.628	55.359	1.00 53.41	8
ATOM	16980	N	GLN G			104.436	55.641	1.00 28.01	7
ATOM	16981	CA	GLN G		37.901	104.042	54.597	1.00 27.34	6
ATOM	16982	CB	GLN G		38.143	102.572	54.233	1.00 35.98	6
MOTA	16983	CG	GLN G	1035	37.566	102.180	52.894	1.00 35.91	6
ATOM	16984	CD	GLN G	1035		103.140	51.789	1.00 34.17	6
ATOM	16985	OE1	GLN G	1035	38.958	102.944	51.100	1.00 34.61	8
MOTA	16986	NE2	GLN G	1035		104.188	51.615	1.00 32.73	7
MOTA	16987	С	GLN G			104.291	55.096	1.00 27.53	6
MOTA	16988	0	GLN G	1035		104.960	54.419	1.00 27.23	8
MOTA	16989	N	ILE G		36.139		56.283	1.00 38.83	7
MOTA	16990	CA	ILE G		34.817		56.893	1.00 38.39	6
MOTA	16991	СВ	ILE G		34.842	103.670	58.403	1.00 29.15	6
MOTA	16992	CG2	ILE G			103.848	58.996	1.00 29.71	6 6
ATOM	16993	CG1	ILE G			102.245 101.197	58.645 58.439	1.00 29.83 1.00 33.08	6
MOTA	16994	CD1	ILE G		34.278 34.383	101.197	56.751	1.00 33.00	6
MOTA	16995 16996	C	ILE G			105.434	56.194	1.00 38.44	8
ATOM ATOM	16997	O N	ARG G			106.340	57.271	1.00 50.44	7
ATOM	16998	CA	ARG G		34.957	107.785	57.226	1.00 63.48	6
ATOM	16999	CB	ARG G			108.546	57.847	1.00 66.49	6
ATOM		CG	ARG G			108.654		1.00 68.48	6
ATOM	17001	CD	ARG G			109.003	57.648	1.00 71.23	6
ATOM	17002	NE	ARG G			110.384	57.433	1.00 73.35	7
MOTA	17003	CZ	ARG G			110.959	58.079	1.00 74.16	6
MOTA	17004	NH1	ARG G		40.697	110.264	58.976	1.00 75.40	7
ATOM	17005	NH2			40.322	112.224	57.839	1.00 73.81	7
MOTA	17006	С	ARG G	1037	34.840	108.248	55.796	1.00 63.18	6
MOTA	17007	Ο	ARG G	31037	34.764		55.526	1.00 64.48	8
MOTA	17008	N	GLN G		34.863		54.882	1.00 29.30	7
MOTA	17009	CA	GLN G		34.799		53.473	1.00 28.59	6
MOTA	17010	CB	GLN G			107.065	52.829	1.00 33.94	6
MOTA	17011	CG	GLN G			107.363	51.368	1.00 33.57	6
ATOM	17012	CD OH1	GLN G		37.659	107.287	50.912	1.00 32.47	6 8
ATOM	17013	OE1			38.505		51.389	1.00 30.02 1.00 31.63	7
ATOM	17014	NE2				106.377 106.963	49.980 52.868	1.00 31.63	6
ATOM	17015	С	GLN G	2T020	JJ.541	100.903	J4.000	1.00 20.07	J

ATOM ATOM	17016 17017	O N	-	G1038 G1039	33.153 32.899	107.267 106.103	51.737 53.654	1.00	28.39 70.71	8 7
ATOM	17018	CA		G1039	31.682	105.415	53.242	1.00	70.80	6
MOTA	17019	CB		G1039	31.738	103.936	53.676		42.09	6
MOTA	17020	CG		G1039	32.453	102.888	52.796		40.18	6
ATOM	17021	CD1		G1039	33.221	101.911	53.676 51.934	1.00	39.29 39.21	6 6
ATOM ATOM	17022 17023	CD2 C		G1039 G1039	31.435 30.432	102.134	51.934	1.00	71.42	6
MOTA	17023	0		G1039	29.384	106.097	53.173	1.00	71.93	8
MOTA	17025	N		G1040	30.540	106.663	55.016	1.00		7
ATOM	17026	CA		G1040	29.409	107.348	55.661	1.00		6
MOTA	17027	CB		G1040	29.094	106.700	57.000	1.00	59.35	6
MOTA	17028	SG		G1040	29.747	105.049	57.133	1.00	61.15	16
MOTA	17029 17030	C		G1040 G1040	29.771 29.198	108.804 109.726	55.904 55.313	1.00 1.00	63.95 65.31	6 8
ATOM ATOM	17030	N O		G1040 G1041	30.714		56.809		55.48	7
MOTA	17031	CA		G1041	31.161		57.080		53.62	6
ATOM	17033	C		G1041	31.934	110.727	55.838		52.73	6
ATOM	17034	0		G1041	32.603	109.885	55.239	1.00		8
ATOM	17035	N		G1042	31.836	111.989	55.449	1.00	25.63	7
MOTA	17036	CA		G1042	32.502	112.496	54.260	1.00	24.49 25.46	6 6
ATOM ATOM	17037 17038	CB CG			32.111 33.240	113.972 114.928	54.092 53.742	1.00		6
MOTA	17038	SD	MET	G1042	34.025	115.738	55.131	1.00	19.24	16
ATOM	17040	ČE	MET	G1042	33.215	117.284	55.029	1.00	19.20	6
MOTA	17041	C	MET	G1042	34.022	112.331	54.205	1.00	25.73	6
MOTA	17042	0		G1042	34.685	112.203	55.222	1.00	25.57	8
MOTA	17043	N		G1043	34.547 35.986	112.292 112.233	52.988 52.715		44.89 48.27	7 6
ATOM	$17044 \\ 17045$	CA CB		G1043 G1043	36.429	112.233	52.715	1.00		6
MOTA	17046	CG		G1043	35.770	110.465	50.882	1.00		6
MOTA	17047	CD		G1043	36.784	110.183	49.795	1.00		6
MOTA	17048	NE		G1043	36.243	109.239	48.826	1.00	65.65	7
ATOM	17049	CZ		G1043	36.953	108.677	47.853	1.00		6 7
ATOM ATOM	17050 17051	NH1 NH2		G1043 G1043	38.240 36.378	108.963 107.801	47.702 47.045	1.00	65.82 66.87	7
ATOM	17051	C		G1043	35.984	113.219	51.571	1.00	50.08	6
ATOM	17053	Õ		G1043	35.203	113.066	50.631	1.00	51.17	8
MOTA	17054	N		G1044	36.813	114.248	51.627	1.00	57.92	7
ATOM	17055	CA		G1044		115.192	50.540	1.00		6
ATOM	17056 17057	C		G1044 G1044	37.839	116.174 116.869	50.308 49.296		60.51 61.34	6 8
ATOM ATOM	17057	N O		G1044 G1045	38.819	116.262	51.195		60.85	7
ATOM	17059	CA		G1045	39.858	117.237	50.919		62.64	6
ATOM	17060	СВ	LEU	G1045	40.575	117.677	52.196	1.00		6
ATOM	17061	CG		G1045	41.209	119.044	51.893		35.37	6
ATOM	17062	CD1		G1045	40.087	120.046 119.514	51.575 53.049		34.03 33.75	6 6
ATOM ATOM	17063 17064	CD2 C		G1045 G1045	42.068 40.865	119.514 116.725	49.888		64.76	6
ATOM	17065	0		G1045	42.082	116.753	50.101		65.26	8
ATOM	17066	N		G1046	40.341	116.270	48.757	1.00	37.70	7
ATOM	17067	CA		G1046	41.166		47.684	1.00		6
MOTA	17068	CB		G1046	40.310	115.557 114.123	46.434	1.00		6 6
MOTA MOTA	17069 17070	CG SD		G1046 G1046	40.245 39.655	114.123	45.958 47.262		45.40	16
ATOM	17071	CE		G1046	41.205	112.756	48.251		44.35	6

ATOM	17072	С		G1046	42.307		47.383	1.00 43.07	6
MOTA	17073	0		G1046	42.280	117.873	47.802	1.00 43.33	8
MOTA	17074	N		G1047	43.312	116.229	46.661	1.00104.69	7
MOTA	17075	CA		G1047	44.458	117.050	46.286	1.00107.40	6
ATOM	17076	CB		G1047	45.727	116.557	46.986	1.00148.76	6
MOTA	17077	CG		G1047	46.083	115.113	46.697	1.00151.67	6
ATOM ATOM	17078 17079	CD OE1		G1047 G1047	47.175 47.557	114.602 113.432	47.614 47.555	1.00152.97 1.00153.66	6 8
ATOM	17079	NE2		G1047	47.557	115.432	47.555	1.00153.66	7
ATOM	17080	C		G1047	44.646	117.011	44.777	1.00132.49	6
ATOM	17082	0		G1047		116.020	44.130	1.00107.82	8
ATOM	17082	N		G1047		118.100	44.219	1.00107.02	7
ATOM	17084	CA		G1048	45.385	118.180	42.787	1.00 74.01	6
ATOM	17085	CB		G1048	45.861		42.398	1.00114.73	6
ATOM	17086	CG		G1048	44.784		42.584	1.00116.62	6
ATOM	17087	CD		G1048		122.030	42.112	1.00118.68	6
ATOM	17088	CE	LYS	G1048	44.177	123.084	42.454	1.00119.59	6
ATOM	17089	NZ	LYS	G1048	44.545	124.449	41.991	1.00120.42	7
ATOM	17090	C	LYS	G1048		117.129	42.398	1.00 73.88	6
MOTA	17091	0		G1048	46.961		43.261	1.00 74.48	8
ATOM	17092	N		G1049	46.636	116.947	41.093	1.00 68.45	7
ATOM	17093	$^{\mathrm{CD}}$		G1049	46.020	117.628	39.942	1.00 55.63	6
ATOM	17094	CA		G1049		115.948	40.646	1.00 68.78	6
ATOM	17095	CB		G1049		115.873	39.154	1.00 55.58	6
ATOM	17096	CG		G1049	46.963	117.285	38.828	1.00 55.59	6
ATOM	17097	C		G1049	49.035	116.363	40.969	1.00 69.61	6
ATOM	17098	O		G1049	49.964		40.804	1.00 70.14	8 7
ATOM	17099 17100	N CA		G1050 G1050	49.197 50.509	117.598 118.144	41.438 41.801	1.00 81.57 1.00 81.32	6
MOTA MOTA	17100	CB		G1050	50.787	119.411	41.003	1.00 56.87	6
ATOM	17101	OG		G1050	50.046	120.494	41.536	1.00 57.14	8
ATOM	17103	C		G1050	50.557		43.290	1.00 81.18	6
ATOM	17104	Ö		G1050	51.218	119.463	43.690	1.00 81.10	8
MOTA	17105	N		G1051	49.847	117.720	44.102	1.00113.08	7
ATOM	17106	CA	GLY	G1051	49.803	117.973	45.531	1.00111.73	6
ATOM	17107	C	GLY	G1051	49.364	119.396	45.797	1.00110.65	6
MOTA	17108	0	GLY	G1051	50.143	120.205	46.288	1.00111.24	8
ATOM	17109	N		G1052	48.115	119.708	45.478	1.00 76.20	7
ATOM	17110	CA		G1052	47.627		45.681	1.00 74.93	6
ATOM	17111	CB		G1052		121.815	44.344	1.00 62.62	6
ATOM	17112	C		G1052			46.305	1.00 74.29	6
ATOM	17113	0		G1052		122.087	46.033	1.00 75.40	8
ATOM	17114	N		G1053		120.164	47.152	1.00 31.97	7
ATOM	17115	CA		G1053		120.091 120.463	47.818	1.00 30.20	6
MOTA MOTA	17116 17117	CB OG1		G1053 G1053		120.463	49.292 49.535	1.00 50.31 1.00 52.45	6 8
ATOM	17117	CG2		G1053		119.226	50.167	1.00 52.45	6
ATOM	17119	C		G1053		120.997	47.205	1.00 28.15	6
MOTA	17120	Õ		G1053		122.199	47.436	1.00 26.84	8
MOTA	17121	N		G1054		120.433	46.416	1.00 59.95	7
MOTA	17122	CA		G1054		121.257	45.812	1.00 60.48	6
MOTA	17123	СВ		G1054		120.410	45.025	1.00 66.54	6
MOTA	17124	CG	PHE	G1054	41.227	119.790	43.796	1.00 67.65	6
MOTA	17125			G1054	41.975	118.622	43.877	1.00 67.50	6
MOTA	17126			G1054		120.363	42.547	1.00 67.81	6
MOTA	17127	CE1	PHE	G1054	42.491	118.033	42.733	1.00 67.85	6

MOTA	17128	CE2	PHE G			119.780	41.395	1.00 67.89	6
MOTA	17129	CZ	PHE C		42.267		41.489	1.00 68.40	6
MOTA MOTA	17130 17131	C O	PHE C		40.896	122.008 121.426	46.918 47.956	1.00 60.72	6 8
ATOM	17131	N	GLU G		40.531	123.301	46.680	1.00 60.81 1.00 49.92	7
ATOM	17133	CA	GLU G		40.016		47.623	1.00 48.19	6
ATOM	17134	CB	GLU G		40.000		47.024	1.00 56.84	6
ATOM	17135	CG	GLU G		39.805		48.014	1.00 58.12	6
ATOM	17136	CD	GLU C	G1055	40.276	128.083	47.457	1.00 59.13	6
MOTA	17137	OE1	GLU C		40.417		46.222	1.00 60.11	8
ATOM	17138	OE2	GLU G			129.026	48.248	1.00 60.04	8
ATOM	17139	C	GLU G			123.749	48.021	1.00 47.22	6
MOTA ATOM	17140 17141	O N	GLU G			124.124 122.949	49.085 47.179	1.00 47.12 1.00 74.64	8 7
ATOM	17141	CA	VAL G		36.602		47.179	1.00 74.04	6
ATOM	17143	CB	VAL G		35.619	122.590	46.298	1.00 75.37	6
ATOM	17144	CG1	VAL C		34.610		46.288	1.00 54.51	6
MOTA	17145	CG2	VAL G		34.867		46.420	1.00 55.73	6
MOTA	17146	С	VAL G		36.670		47.844	1.00 72.41	6
MOTA	17147	0	VAL G		36.977		46.993	1.00 73.70	8
ATOM	17148	N	PRO G		36.370		49.107	1.00 23.65	7
ATOM	17149	CD	PRO G		35.806	121.415	50.190	1.00 61.10	6
MOTA MOTA	17150 17151	CA CB	PRO G		36.418 36.225	119.194 119.283	49.519 51.026	1.00 22.52 1.00 59.37	6 6
ATOM	17151	CB	PRO G		35.239		51.020	1.00 59.37	6
MOTA	17153	C	PRO G		35.294		48.828	1.00 33.32	6
ATOM	17154	Ö	PRO G		34.716		47.862	1.00 22.06	8
MOTA	17155	N	VAL C		34.977		49.317	1.00 25.40	7
MOTA	17156	CA	VAL G		33.906	116.486	48.712	1.00 26.34	6
MOTA	17157	СВ	VAL G		34.467		48.079	1.00 27.11	6
ATOM	17158	CG1			33.622	114.822	46.877	1.00 29.20	6
ATOM	17159 17160	CG2	VAL G		35.895 32.747	115.397 116.126	47.651	1.00 26.42 1.00 27.04	6 6
MOTA MOTA	17160	C O	VAL C		32.747	116.126	49.664 50.876	1.00 27.04	8
MOTA	17162	N	ALA C		31.574	115.884	49.097	1.00 20.43	7
MOTA	17163	CA	ALA C		30.418	115.473	49.883	1.00 73.02	6
MOTA	17164	CB	ALA C		29.192	116.248	49.456	1.00172.76	6
MOTA	17165	С	ALA G		30.288	114.000	49.497	1.00 72.38	6
MOTA	17166	0	ALA G		29.463	113.621	48.646	1.00 71.49	8
ATOM	17167	N	SER C			113.174	50.126	1.00 42.81	7
MOTA MOTA	17168 17169	CA CB	SER G		32.612		49.803 49.901	1.00 43.34 1.00151.82	6 6
ATOM	17170	OG	SER C		33.485		49.012	1.00151.82	8
MOTA	17171	C	SER G		30.287		50.607	1.00134.10	6
MOTA	17172	Õ	SER G		30.751		51.024	1.00 42.80	8
MOTA	17173	N	SER G		29.028	111.182	50.832	1.00 64.02	7
MOTA	17174	CA	SER C			110.274	51.598	1.00 64.44	6
MOTA	17175	CB	SER C			110.505	51.300	1.00 46.66	6
ATOM	17176	OG	SER C		26.195		51.908	1.00 45.87	8
MOTA	17177	C	SER C		28.603	108.862 107.944	51.166 51.985	1.00 65.14 1.00 65.32	6
${f ATOM}$	17178 17179	O N	SER G		28.620 28.995		49.889	1.00 65.32	8 7
ATOM	17180	CA	PHE G			107.464	49.269	1.00 50.54	6
ATOM	17181	CB	PHE G		30.623		49.999	1.00 42.33	6
MOTA	17182	CG	PHE G	£1062	31.762	106.469	49.080	1.00 41.07	6
MOTA	17183	CD1	PHE G	F1062	31.922	107.078	47.837	1.00 40.91	6

ATOM	17184	CD2	PHE G1062		.718	105.546	49.489	1.00 39.80	6
ATOM ATOM	17185 17186	CE1 CE2	PHE G1062 PHE G1062		.016	106.775 105.241	47.027 48.684	1.00 39.89 1.00 39.22	6 6
ATOM	17187	CEZ	PHE G1062		.961	105.241	47.458	1.00 39.22	6
MOTA	17188	C	PHE G1062		.218	106.556	49.387	1.00 50.10	6
ATOM	17189	Õ	PHE G1062		.690	106.061	48.392	1.00 48.76	8
MOTA	17190	N	ARG G1063		.803	106.363	50.635	1.00 40.59	7
MOTA	17191	CA	ARG G1063		.641	105.582	50.981	1.00 41.65	6
MOTA	17192	CB	ARG G1063		.299	105.801	52.454	1.00 46.91	6
MOTA	17193	CG	ARG G1063		.934	105.285	52.863	1.00 46.03	6
MOTA	17194	CD	ARG G1063		.829	106.224	52.409	1.00 44.48	6
MOTA MOTA	17195 17196	NE CZ	ARG G1063 ARG G1063		.511	105.768 105.351	52.826 54.056	1.00 42.65 1.00 42.52	7 6
ATOM	17197	NH1	ARG G1063		.158	105.331	54.030	1.00 42.32	7
MOTA	17198	NH2	ARG G1063		.975	104.979	54.361	1.00 42.77	7
MOTA	17199	C	ARG G1063		.568	106.153	50.089	1.00 42.82	6
MOTA	17200	0	ARG G1063		.900	105.440	49.359	1.00 42.84	8
MOTA	17201	N	GLU G1064		.395	107.458	50.155	1.00 54.47	7
MOTA	17202	CA	GLU G1064		.426	108.079	49.293	1.00 57.79	6
MOTA	17203	CB	GLU G1064		.579	109.118	50.042	1.00122.75	6
MOTA	17204	CG	GLU G1064		.207	108.588	50.488	1.00123.96	6
MOTA MOTA	17205 17206	CD OE1	GLU G1064 GLU G1064		.188 .889	109.692 110.479	50.762 49.834	1.00124.45 1.00123.97	6 8
ATOM	17207	OE1	GLU G1064		.681	10.479	51.904	1.00123.97	8
ATOM	17208	C	GLU G1064		.221	108.727	48.184	1.00 58.91	6
ATOM	17209	Ö	GLU G1064		.444	109.925	48.186	1.00 59.88	8
MOTA	17210	N	GLY G1065		.678	107.899	47.256	1.00134.40	7
MOTA	17211	CA	GLY G1065		.430	108.376	46.112	1.00135.02	6
ATOM	17212	C	GLY G1065		.599	109.307	46.334	1.00134.71	6
ATOM	17213	0	GLY G1065		.993	109.606	47.461	1.00135.65	8
ATOM ATOM	17214 17215	N CA	LEU G1066 LEU G1066		.155	109.753 110.665	45.214 45.187	1.00 16.41 1.00 14.33	7 6
ATOM	17215	CB	LEU G1066		.582	109.911	45.043	1.00 14.33	6
ATOM	17217	CG	LEU G1066		.847	110.745	45.107	1.00 13.87	6
MOTA	17218	CD1	LEU G1066		.761	111.586	46.317	1.00 13.87	6
MOTA	17219	CD2	LEU G1066		.064	109.868	45.196	1.00 13.87	6
MOTA	17220	C	LEU G1066		.988	111.375	43.920	1.00 15.38	6
ATOM	17221	0	LEU G1066		.885	111.650	43.142	1.00 15.39	8
ATOM ATOM	17222 17223	N CA	THR G1067 THR G1067		.698 .183	111.622 112.308	43.709 42.528	1.00 87.90 1.00 90.97	7 6
ATOM	17223 17224	CB	THR G1067		.663		42.528	1.00140.13	6
ATOM	17225	OG1	THR G1067			111.415	43.141	1.00140.49	8
ATOM	17226	CG2	THR G1067			113.021	41.351	1.00141.43	6
ATOM	17227	С	THR G1067			113.632	42.345	1.00 91.33	6
ATOM	17228	0	THR G1067		.795	114.302	41.316	1.00 91.60	8
ATOM	17229	N	VAL G1068		.707	113.993	43.363	1.00 81.99	7
MOTA	17230	CA	VAL G1068			115.213	43.360	1.00 81.36	6
ATOM ATOM	17231 17232	CB CG1	VAL G1068 VAL G1068			115.128 116.499	44.405 44.622	1.00 87.41 1.00 88.37	6 6
ATOM	17233		VAL G1068			114.580	45.737	1.00 87.01	6
ATOM	17234	C	VAL G1068			115.355	41.957	1.00 80.45	6
ATOM	17235	0	VAL G1068	30	.207		41.451	1.00 81.03	8
ATOM	17236	N	LEU G1069			114.218	41.325	1.00 52.69	7
ATOM	17237	CA	LEU G1069			114.168	39.977	1.00 51.59	6
ATOM	17238	CB	LEU G1069			114.635	38.921	1.00 37.44	6,6
ATOM	17239	CG	LEU G1069	49	.947	113.859	37.600	1.00 36.50	O

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	17240 17241 17242 17243 17244 17245 17246 17246 17247 17252 17255 17255 17255 17255 17261 17263 17263 17263 17266 17266 1727 1727 1727 1727 1727 17	CD2 C O N CA CB CGC CCC CCC CCC CCC CCC CCC CCCC C	LEU G1069 LEU G1069 LEU G1069 GLU G1070 GLU G1071 TYR G1072 PHE G1073 ILE G1073 ILE G1073 ILE G1073 ILE G1073 ILE G1073 SER G1074 SER G1074	29.130 114.628 31.371 113.669 32.175 115.034 32.662 115.443 32.674 115.325 33.901 116.072 33.995 116.663 34.944 117.852 34.408 119.136 33.355 119.643 35.044 119.642 34.837 114.885 36.051 115.038 34.209 113.699 34.833 112.373 33.936 111.493 34.095 109.984 35.074 109.294 35.180 107.922 33.232 109.255 33.329 107.897 34.298 107.226 34.366 105.852 36.168 112.562 37.174 111.960 36.150 113.414 37.340 113.719 37.058 114.821 38.220 115.127 38.427 114.428 39.175 116.032 39.573 114.618 40.317 116.224 40.522 115.511 38.449 114.155 39.519 113.561 38.192 115.200 39.165 115.696 38.472 116.503 39.325 116.567 38.207 117.916 37.294 117.968 39.952 114.549 41.183 114.555 39.951 113.563 39.886 112.413 38.945 111.799	40.660 41.836 41.812 42.385 43.025 44.044	1.00 36.78 1.00 35.23 1.00 51.26 1.00 50.85 1.00 77.89 1.00 77.46 1.00149.79 1.00154.08 1.00157.77 1.00157.61 1.00 75.60 1.00 75.21 1.00107.97 1.00104.08 1.00 27.41 1.00 27.10 1.00 28.79 1.00 27.41 1.00 27.77 1.00 27.50 1.00 26.32 1.00103.87 1.00104.64 1.00 38.33 1.00 36.88 1.00 29.37 1.00 27.82 1.00 27.82 1.00 27.82 1.00 27.82 1.00 27.82 1.00 27.83 1.00 27.83 1.00 27.83 1.00 27.82 1.00 27.83 1.00 27.83 1.00 27.83 1.00 27.84 1.00 27.83	666876668868766666666886876666668766687668
ATOM ATOM	17282 17283	C O	ILE G1073 ILE G1073	39.952 114.549 41.183 114.555	41.836 41.812	1.00 64.73 1.00 65.48	6 8
MOTA	17285	CA	SER G1074	39.886 112.413	43.025	1.00 43.60	6
ATOM ATOM	17286 17287	CB OG	SER G1074 SER G1074	38.945 111.771 37.888 111.099	44.044	1.00 51.10	8
ATOM ATOM	17288 17289	C O	SER G1074 SER G1074	40.329 111.353 41.104 110.461	42.017 42.364	1.00 43.55 1.00 43.93	6 8
ATOM	17290	N	SER G1075	39.834 111.455	40.781	1.00 37.72	7
ATOM ATOM	17291 17292	CA CB	SER G1075 SER G1075	40.189 110.513 39.585 110.946	39.718 38.373	1.00 37.29 1.00 27.72	6 6
MOTA	17293	OG	SER G1075	40.526 111.642	37.574	1.00 26.95	8
ATOM ATOM	17294 17295	С О	SER G1075 SER G1075	41.708 110.472 42.300 109.477	39.615 39.193	1.00 37.29 1.00 37.86	6 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM	17296 17297 17298 17299 17300 17301 17302 17303	N CA CB CG CD2 ND1 CE1 NE2	HIS G1076 HIS G1076	42.333 111.571 43.778 111.651 44.243 113.092 43.531 114.103 42.223 114.236 44.178 115.171 43.300 115.919 42.106 115.373	40.006 39.994 40.215 39.367 39.045 38.784 38.141 38.285	1.00 23.97 1.00 24.01 1.00 69.89 1.00 71.73 1.00 72.14 1.00 73.19 1.00 72.53 1.00 72.39	766667676
ATOM ATOM ATOM	17304 17305 17306	C O N	HIS G1076 HIS G1076 GLY G1077	44.227 110.775 43.972 109.579 44.877 111.379	41.155 41.143 42.146	1.00 22.98 1.00 22.29 1.00 29.05	6 8 7
ATOM ATOM	17307 17308	CA C	GLY G1077 GLY G1077	45.345 110.665 45.300 109.142	43.325 43.364	1.00 29.29 1.00 30.06	6 6
ATOM	17309	0	GLY G1077	46.336 108.489	43.563	1.00 30.33	8
ATOM	17310	N	ALA G1078	44.107 108.566	43.218	1.00 30.46 1.00 31.01	7 6
ATOM ATOM	17311 17312	CA CB	ALA G1078 ALA G1078	43.969 107.113 42.550 106.717	43.221 42.849	1.00 31.01	6
ATOM	17313	C	ALA G1078	44.961 106.551	42.206	1.00 31.42	6
MOTA	17314	0	ALA G1078	,45.534 105.488	42.408	1.00 31.49	8
ATOM ATOM	17315 17316	N CA	ARG G1079 ARG G1079	45.151 107.273 46.105 106.867	41.110 40.094	1.00 20.51 1.00 21.30	7 6
ATOM	17317	CB	ARG G1079	45.995 107.759	38.852	1.00 32.85	6
ATOM	17318	CG	ARG G1079	44.744 107.540	37.979	1.00 30.64	6
MOTA MOTA	17319 17320	CD NE	ARG G1079 ARG G1079	44.797 106.255 44.452 106.510	37.127 35.730	1.00 27.10 1.00 21.58	6 7
ATOM	17321	CZ	ARG G1079	45.223 107.188	34.897	1.00 21.50	6
MOTA	17322	NH1	ARG G1079	46.374 107.670	35.318	1.00 20.65	7
MOTA	17323	NH2		44.846 107.388	33.654	1.00 15.90 1.00 23.49	7 6
MOTA MOTA	17324 17325	C O	ARG G1079 ARG G1079	47.536 106.943 48.287 105.982	40.650 40.543	1.00 23.49	8
ATOM	17326	N	LYS G1080	47.943 108.069	41.232	1.00 49.26	7
ATOM	17327	CA	LYS G1080	49.299 108.115	41.765	1.00 53.08	6
MOTA MOTA	17328 17329	CB CG	LYS G1080 LYS G1080	49.632 109.465 48.858 109.842	42.413 43.680	1.00 71.79 1.00 74.53	6 6
MOTA	17330	CD	LYS G1080	49.271 111.268	44.115	1.00 75.99	6
ATOM	17331	CE	LYS G1080	48.356 111.905	45.166	1.00 75.28	6
MOTA MOTA	17332 17333	NZ C	LYS G1080 LYS G1080	48.592 113.384 49.314 107.013	45.230 42.787	1.00 73.92 1.00 54.74	7 6
ATOM	17333	0	LYS G1080	50.326 106.352	42.997	1.00 55.03	8
MOTA	17335	N	GLY G1081	48.155 106.803	43.397	1.00 62.41	7
ATOM	17336	CA	GLY G1081	48.013 105.747 47.994 104.403	44.376 43.665	1.00 65.40 1.00 66.82	6 6
ATOM ATOM	17337 17338	C O	GLY G1081 GLY G1081	47.412 103.428	44.148	1.00 66.69	8
ATOM	17339	N	GLY G1082	48.637 104.361	42.504	1.00 41.64	7
ATOM	17340	CA	GLY G1082	48.697 103.147	41.711	1.00 43.79	6 6
ATOM ATOM	17341 17342	C O	GLY G1082 GLY G1082	49.880 103.285 50.269 102.347	40.782 40.088	1.00 45.02 1.00 43.67	8
ATOM	17343	N	ALA G1083	50.438 104.489	40.764	1.00 69.21	7
ATOM	17344	CA	ALA G1083	51.602 104.776	39.952	1.00 71.61	6
MOTA MOTA	17345 17346	CB C	ALA G1083 ALA G1083	51.891 106.262 52.720 104.015	39.965 40.641	1.00 97.90 1.00 73.49	6 6
MOTA	17347	Õ	ALA G1083	53.598 103.446	39.995	1.00 74.35	8
ATOM	17348	N	ASP G1084	52.671 104.006	41.970	1.00 68.22	7
MOTA MOTA	17349 17350	CA CB	ASP G1084 ASP G1084	53.671 103.300 53.648 103.764	42.757 44.224	1.00 70.05 1.00137.38	6 6
MOTA	17351	CG	ASP G1084	54.382 105.092	44.438	1.00138.90	6

ATOM ATOM	17352 17353	OD2	ASP	G1084 G1084		105.179 106.053	1	44.131 44.923	1.00138.95 1.00140.40	8
ATOM	17354	C		G1084	53.432	101.796		42.662	1.00 70.56	6 8
ATOM ATOM	17355 17356	N O		G1084 G1085	54.378 52.173	101.027		42.549 42.691	1.00 70.04 1.00 74.52	7
ATOM	17357	CA		G1085	51.891	99.938		42.580	1.00 75.50	6
ATOM	17358	СВ	THR	G1085	50.377	99.65		42.478	1.00 68.09	6
ATOM	17359	OG1		G1085	49.876	100.134		41.220	1.00 68.24	8
ATOM	17360	CG2		G1085	49.642	100.342		43.619	1.00 68.36 1.00 76.40	6 6
ATOM	17361 17362	C O		G1085 G1085	52.588 52.778	99.415 98.213		41.324 41.148	1.00 76.40 1.00 76.52	8
ATOM	17362	N		G1085	52.770	100.338		40.448	1.00 83.59	7
ATOM	17364	CA		G1086	53.669	99.97	9	39.232	1.00 84.65	6
MOTA	17365	CB		G1086	53.715	101.15		38.295	1.00 80.40	6
ATOM	17366	C		G1086	55.073	99.593		39.664	1.00 85.51	6
ATOM	17367 17368	N O		G1086 G1087	55.969 55.240	99.408		38.840 40.980	1.00 85.92 1.00102.04	8 7
ATOM ATOM	17369	CA		G1087	56.494	99.093		41.622	1.00102.04	6
ATOM	17370	CB		G1087	56.471	99.52		43.089	1.00121.59	6
MOTA	17371	CG		G1087	57.702	99.41		43.984	1.00122.48	6
MOTA	17372	CD1		G1087	58.753	100.432		43.564	1.00122.43	6
ATOM	17373 17374	CD2 C		G1087 G1087	57.275 56.531	99.674 97.569		45.417 41.542	1.00121.96 1.00104.53	6 6
ATOM ATOM	17374	0		G1087	57.367	96.90		42.160	1.00104.55	8
ATOM	17376	N		G1088	55.589	97.03		40.775	1.00178.21	7
MOTA	17377	CA		G1088	55.448	95.598		40.576	1.00178.10	6
MOTA	17378	CB		G1088	54.368	95.33		39.520	1.00156.51	6
MOTA	17379 17380	CG		G1088 G1088	54.021 52.731	93.872 93.71		39.324 38.533	1.00156.71 1.00157.04	6 6
ATOM ATOM	17381	CD NE		G1088	52.751	92.31		38.367	1.00157.04	7
ATOM	17382	CZ		G1088	51.218	91.89		37.845	1.00156.86	6
MOTA	17383	NH1		G1088	50.312	92.77		37.436	1.00156.51	7
ATOM	17384	NH2		G1088	50.976	90.59		37.726	1.00156.68	7 6
ATOM ATOM	17385 17386	С О		G1088 G1088	56.761 57.267	94.94 94.06		40.162 40.861	1.00177.89 1.00178.39	8
ATOM	17387	N		G1089	57.207	95.37		39.031	1.00170.33	7
ATOM	17388	CA		G1089	58.571	94.81	2	38.539	1.00 70.64	6
ATOM	17389	CB		G1089	58.841	95.20		37.070	1.00 84.81	6
ATOM	17390	OG1		G1089	57.656 59.947	95.01		36.292	1.00 85.76 1.00 84.90	8 6
ATOM	17391 17392	CG2 C		G1089 G1089	59.719	94.351 95.33		36.486 39.393	1.00 84.90	6
ATOM	17393	Ö		G1089	60.761	94.68		39.522	1.00 69.06	8
ATOM	17394	N	ALA	G1090	59.501	96.51	1	39.977	1.00194.50	7
MOTA	17395	CA		G1090	60.487	97.18		40.816	1.00194.95	6
MOTA MOTA	17396 17397	CB C		G1090 G1090	59.796 61.404	98.10° 96.24		41.800 41.569	1.00 61.34 1.00195.05	6 6
ATOM	17398	0		G1090	62.454	95.84		41.058	1.00195.73	8
MOTA	17399	N		G1091	61.003	95.87		42.783	1.00 93.23	7
MOTA	17400	CA	ASP	G1091	61.828	94.99		43.605	1.00 92.34	6
ATOM	17401	CB		G1091	61.231	94.88		45.013	1.00 83.99	6
MOTA MOTA	17402 17403	CG OD1		G1091 G1091	61.340 62.478	96.20 96.65		45.789 46.062	1.00 83.05 1.00 82.49	6 8
ATOM	17403	OD1		G1091	60.285	96.78		46.115	1.00 82.36	8
MOTA	17405	C	ASP	G1091	62.105	93.62	3	42.992	1.00 91.56	6
ATOM	17406	0		G1091	62.663	92.73		43.645	1.00 91.17	8
MOTA	17407	N	SER	G1092	61.725	93.47	U	41.726	1.00129.54	7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	17408 17409 17410 17411 17412 17413 17414 17415 17416 17417 17418 17419 17420 17421	CA CB OG C O N CA C O N CA CB CCA CB CCB	SER G10 SER G10 SER G10 SER G10 GLY G10 GLY G10 GLY G10 TYR G10 TYR G10 TYR G10 TYR G10	92 92 92 93 93 93 93 94 94	61.987 60.798 61.005 63.224 63.170 64.336 65.589 66.301 67.356 65.708 66.249 65.610 66.599 66.182	92.244 91.888 90.645 92.582 92.691 92.772 93.125 94.153 94.670 94.439 95.405 96.781 97.922 99.166	40.984 40.085 39.433 40.145 38.918 40.845 40.206 41.067 40.698 42.226 43.172 42.948 42.786 42.310	1.00128.99 1.00194.70 1.00196.14 1.00127.29 1.00126.64 1.00140.29 1.00137.19 1.00 54.29 1.00 51.69 1.00133.04 1.00134.84 1.00136.79	6 6 8 9 4 6 6 6 8 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
MOTA	17422	CE1	TYR G10	94	67.093	100.212	42.119	1.00137.9	4 6
ATOM	17423 17424	CD2 CE2	TYR G10 TYR G10		67.954 68.866	97.753 98.790	43.077 42.891	1.00134.5	
ATOM	17424	CZ	TYR G10		68.434		42.410	1.00137.8	
ATOM	17426	OH	TYR G10		69.346	101.027	42.203	1.00138.0	2 8
ATOM	17427	C	TYR G10		66.022	94.969	44.619	1.00 48.9	
ATOM ATOM	17428 17429	O N	TYR G10 LEU G10		65.163 66.811	94.136 95.572	44.922 45.500	1.00 47.6	
ATOM	17430	CA	LEU G10		66.794	95.321	46.933	1.00 96.7	
ATOM	17431	СВ	LEU G10		65.480	95.783	47.571	1.00 36.1	8 6
MOTA	17432	CG	LEU G10		65.765	96.383	48.956	1.00 33.83	
ATOM	17433	CD1 CD2	LEU G10 LEU G10		66.802 64.532	97.447 96.993	48.793 49.585	1.00 33.93 1.00 32.6	
ATOM	17434 17435	CD2	LEU G10		67.076	93.874	47.283	1.00 94.6	
ATOM	17436	Õ	LEU G10		68.241	93.487	47.325	1.00 95.7	4 8
ATOM	17437	N	THR G10		66.043	93.069	47.531	1.00 48.3	
ATOM	17438	CA	THR G10		66.287 65.072	91.671	47.886	1.00 44.23	
ATOM ATOM	17439 17440	CB OG1	THR G10 THR G10		64.002	90.764 91.198	47.691 48.527	1.00 41.3	
ATOM	17441	CG2	THR G10		65.423	89.347	48.074	1.00 39.8	6 6
MOTA	17442	C	THR G10		67.370	91.119	46.996	1.00 43.1	
MOTA	17443	O N	THR G10		68.358 67.184	90.571 91.271	47.483 45.687	1.00 43.95 1.00 29.05	
ATOM ATOM	$17444 \\ 17445$	N CA	ARG G10 ARG G10		68.159	90.766	44.732	1.00 25.0	
MOTA	17446	CB	ARG G10		67.828	91.212	43.310	1.00 28.4	
ATOM	17447	CG	ARG G10		68.784	90.655	42.277	1.00 23.8	
ATOM	17448	CD	ARG G10		68.499		40.869	1.00 19.4	
ATOM ATOM	17449 17450	$_{ m CZ}$	ARG G10 ARG G10		67.263 66.919	90.635 89.351	40.304	1.00 16.7° 1.00 16.5°	
ATOM	17451		ARG G10		67.714		40.853	1.00 15.7	
MOTA	17452	NH2	ARG G10	97	65.780	88.961	39.759	1.00 17.2	
MOTA	17453	C	ARG G10		69.519	91.279	45.124	1.00 24.7	
MOTA MOTA	17454 17455	O N	ARG G10 LYS G10		70.469 69.598	90.514 92.572	45.179 45.426	1.00 23.9 1.00 46.2	
ATOM	17456	CA	LYS G10		70.860	93.191	45.814	1.00 47.2	
MOTA	17457	CB	LYS G10	98	70.722	94.709	45.744	1.00 73.4	7 6
MOTA	17458	CG	LYS G10		70.735	95.226	44.313	1.00 77.2	
ATOM ATOM	17459 17460	CD CE	LYS G10 LYS G10		70.969 71.525	96.726 97.160	44.262 42.908	1.00 80.5° 1.00 82.2°	
MOTA	17461	NZ	LYS G10		71.750	98.636	42.861	1.00 84.2	1 7
MOTA	17462	С	LYS G10	98	71.426	92.760	47.174	1.00 45.9	4 6
MOTA	17463	0	LYS G10	98	72.601	92.402	47.275	1.00 45.5	6 8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	17464 17465 17466 17466 17466 17468 17470 17471 17473 17473 17474 17475 17476 17477 17481 17483 17488 17488 17488 17488 17499 17499 17499 17499 17499 17499 17500	C O N CA CB CG1 CG2 C O N CA CB CCB CCD2 N CA CB CCD2 ND1 CE1 NE2 C O	LEU LEU LEU VAL	G1099 G1099 G1099 G1099 G1099 G1099 G1099 G1099 G1100 G1100 G1100 G1101 G1101 G1101 G1101 G1101 G1101 G1101 G1101 G1102 G1102 G1102 G1102 G1102 G1102 G1103 G1103 G1103 G1104 G1104 G1104 G1104 G1104 G1104 G1104 G1104 G1104 G1105	70.601 71.036 69.944 69.566 68.710 68.801 71.363 72.361 70.729 69.726 70.199 68.346 72.707 74.048 73.492 73.459 72.986 75.108 76.209 75.353 76.650 76.750 76.750 76.760 76.767 76.549	92.800 92.388 92.639 94.053 94.779 93.919 90.476 90.103 88.651 87.952 86.554 87.882 88.335 87.267 89.2115 89.251 89.251 89.958 89.958 89.958 89.958 89.958 89.958 89.539 90.991 92.393 90.991 92.393 93.317 90.123 84.830 84.600 85.622 83.650 83.65	48.534 49.532 50.033 51.033 51.033 52.333 51.095 60.333	1.00 15.40 1.00 13.87 1.00 18.91 1.00 17.09 1.00 17.63 1.00 14.40 1.00 15.05 1.00 42.02 1.00 42.77 1.00 35.80 1.00 35.22 1.00 43.84 1.00 43.84 1.00 44.54 1.00 44.61 1.00 34.48 1.00 35.27 1.00 35.56 1.00 44.61 1.00 45.63 1.00 42.29 1.00 42.96 1.00 19.63 1.00 42.96 1.00 19.63 1.00 19.63 1.00 19.63 1.00 44.74 1.00 44.43 1.00 54.22 1.00 56.42 1.00 99.83 1.00 57.74 1.00 99.83 1.00 72.06 1.00 99.83 1.00 72.73 1.00 74.66 1.00 72.73 1.00 74.66 1.00 99.23 1.00 74.66 1.00 99.23 1.00100.11 1.00 48.15	76666668766668766688687666687666876668767687
ATOM	17505	CE1	HIS	G1104	76.796	83.973	48.476	1.00 74.18	6
MOTA	17507	С	HIS	G1104	76.056	84.662	52.472 52.627	1.00100.11	8
MOTA	17509	N		G1105	76.549	83.430		1.00 48.15 1.00 47.26	7 6
MOTA MOTA	17510 17511	CA CB		G1105 G1105	77.969 78.838	83.234 84.099	52.787 51.874	1.00 47.20	6
ATOM	17512	CG	GLU	G1105	80.222	84.396	52.415	1.00 67.87	6
ATOM	17513	CD		G1105	80.555	85.873	52.341	1.00 68.89 1.00 67.97	6 8
ATOM ATOM	17514 17515	OE1 OE2		G1105 G1105	79.711 81.661	86.691 86.214	52.770 51.862	1.00 67.97 1.00 70.37	8
ATOM	17516	C		G1105	78.092	83.733	54.221	1.00 46.84	6
MOTA	17517	Ō	GLU	G1105	79.159	83.714	54.827	1.00 48.11	8
MOTA	17518	N		G1106	76.960	84.189	54.742	1.00 53.44	7 6
MOTA	17519	CA	TLE	G1106	76.830	84.722	56.085	1.00 51.14	О

ATOM ATOM	17520 17521	CB CG2		G1106 G1106	76.142 75.818	86.124 86.656	56.027 57.388	1.00 15.21 1.00 14.34	6 6
ATOM	17521	CG2 CG1		G1106	77.089	87.117	55.382	1.00 14.34	6
ATOM	17523	CD1		G1106	78.412	87.180	56.084	1.00 15.16	6
MOTA	17524	C		G1106	75.950	83.714	56.793	1.00 50.82	6
MOTA	17525	0		G1106 G1107	74.735 76.559	83.842 82.696	56.785 57.387	1.00 51.03 1.00 17.44	8 7
MOTA MOTA	17526 17527	N CA		G1107 G1107	75.782	81.665	58.071	1.00 17.44	6
ATOM	17528	CB		G1107	75.922	80.319	57.335	1.00 19.16	6
MOTA	17529	CG1		G1107	75.114	79.254	58.039	1.00 20.01	6
MOTA	17530	CG2		G1107	75.473	80.470	55.893	1.00 17.33	6
MOTA	17531	C		G1107	76.127	81.459 81.724	59.549	1.00 18.68 1.00 19.66	6 8
MOTA MOTA	17532 17533	O N		G1107 G1108	77.233 75.160	80.998	59.980 60.326	1.00 19.66	7
MOTA	17534	CA		G1108	75.378	80.751	61.740	1.00 47.62	6
ATOM	17535	СВ		G1108	74.056	80.354	62.422	1.00 55.91	6
MOTA	17536	CG1		G1108	74.293	80.000	63.867	1.00 56.80	6
MOTA	17537	CG2		G1108	73.061	81.485	62.307	1.00 55.44	6
MOTA ATOM	17538 17539	C O		G1108 G1108	76.378 76.005	79.607 78.435	61.848 61.777	1.00 49.77 1.00 50.63	6 8
ATOM	17540	N		G1109	77.652	79.947	62.006	1.00 53.06	7
MOTA	17541	CA		G1109	78.701	78.936	62.106	1.00 53.93	6
MOTA	17542	СВ		G1109	79.727	79.139	60.994	1.00 54.75	6
MOTA	17543	CG		G1109	79.117 80.168	79.547 79.715	59.665 58.586	1.00 54.83 1.00 55.76	6 6
MOTA MOTA	17544 17545	CD NE		G1109 G1109	79.608	80.345	57.398	1.00 58.64	7
MOTA	17546	CZ		G1109	80.107	80.194	56.177	1.00 60.66	6
MOTA	17547		ARG	G1109	81.173	79.431	55.996	1.00 62.22	7
MOTA	17548	NH2		G1109	79.543	80.792	55.135	1.00 61.45	7
ATOM	17549 17550	C O		G1109 G1109	79.397 79.948	79.064 80.118	63.447 63.739	1.00 55.14 1.00 56.53	6 8
ATOM ATOM	17551	N		G1109 G1110	79.354	77.997	64.248	1.00 50.55	7
MOTA	17552	CA		G1110	79.978	77.929	65.580	1.00 70.44	6
ATOM	17553	СВ	GLU	G1110	81.361	78.608	65.580	1.00 29.53	6
MOTA	17554	CG		G1110	81.372	80.083	65.958	1.00 27.59	6
MOTA	17555 17556	CD OF1		G1110 G1110	82.728 83.703	80.726 80.239	65.753 66.369	1.00 27.62 1.00 28.62	6 8
MOTA MOTA	17557	OE1 OE2		G1110 G1110	82.816	81.713	64.978	1.00 26.76	8
MOTA	17558	C		G1110	79.130	78.504	66.714	1.00 71.85	6
MOTA	17559	0	GLU	G1110	77.916	78.575	66.624	1.00 72.65	8
ATOM	17560	N		G1111	79.777	78.897	67.801	1.00 70.73	7
MOTA MOTA	17561 17562	CA CB		G1111 G1111	79.048 78.464	79.459 78.335	68.922 69.781	1.00 71.48 1.00 13.87	6 6
ATOM	17563	CD		G1111	79.922	80.388	69.769	1.00 73.10	6
MOTA	17564	Ö		G1111	81.158	80.359	69.681	1.00 73.20	8
MOTA	17565	N		G1112	79.247	81.215	70.571	1.00149.19	7
MOTA	17566	CA		G1112	79.857	82.195	71.475	1.00150.93	6
ATOM ATOM	17567 17568	CB C		G1112 G1112	79.488 81.365	81.860 82.323	72.920 71.350	1.00126.92 1.00151.11	6 6
ATOM	17569	Ö		G1112	82.088	82.123	72.324	1.00151.26	8
ATOM	17570	N	CYS	G1113	81.829	82.667	70.153	1.00 86.03	7
ATOM	17571	CA		G1113	83.251	82.818	69.893	1.00 85.94	6
ATOM	17572 17573	CB		G1113 G1113	83.468 82.777	83.616 85.280	68.610 68.651	1.00 58.96 1.00 57.92	6 16
MOTA MOTA	17574	SG C		G1113 G1113	83.944	83.523	71.047	1.00 37.92	6
ATOM	17575	Ö		G1113	84.355	82.889	72.019	1.00 86.35	8

3 mo3	17576	3.7	OT 17 O1 1	14 0	4 073	04 020	70.0	22.4	1 00	CO 00	7
ATO		N ~-	GLY G11		4.073	84.839				68.89	7
ATON		CA	GLY G11		4.715	85.615				69.12	6
ATON		С	GLY G11		4.082	86.984				68.79	6
ATON	17579	0	GLY G11	14 8	4.363	87.840	71.2	204		68.51	8
ATON	17580	N	ALA G11	15 8	3.220	87.181	73.0	34	1.00	69.28	7
ATON	17581	CA	ALA G11		2.523	88.450			1.00	69.62	6
ATON		CB	ALA G11		1.777	88.448				127.54	6
ATON		C	ALA G11		3.490	89.626				69.24	6
ATON		Ö	ALA G11		3.977	90.000				68.67	8
											7
ATON		N	ALA G11		3.759	90.214				92.92	
ATOL		CA	ALA G11		4.674	91.333				92.82	6
ATOI		CB	ALA G11		6.066	90.880				98.99	6
IOTA		С	ALA G11		4.199	92.460				92.10	6
IOTA	I 17589	0	ALA G11	16 8	4.972	93.359				93.50	8
ATON	I 17590	N	ALA G11	17 8	2.937	92.407	73.0	063	1.00	76.64	7
ATON	17591	CA	ALA G11	17 8	2.377	93.451	72.2	206	1.00	74.11	6
ATON	17592	CB	ALA G11		2.894	93.316	70.7	791	1.00	43.28	6
ATON		C	ALA G11		0.856	93.404				72.27	6
ATON		Õ	ALA G11		0.254	92.344			1.00	71.97	8
ATON		N	ALA G11		0.234	94.568				31.47	7
			ALA GII		8.801					28.93	6
ATON		CA				94.670					
ATON		СВ	ALA G11		8.383	94.776				13.87	6
ATOI		C	ALA G11		8.342	95.900				28.09	6
ATOI		0	ALA G11		9.118	96.528				27.74	8
ATON		N	ILE G11		7.063	96.223				46.47	7
ATON	1 17601	CA	ILE G11		6.441	97.383				45.45	6
ATON	I 17602	CB	ILE G11	19 7	5.636	97.019	69.6	527	1.00	35.54	6
ATON	17603	CG2	ILE G11	19 7	5.325	98.261	68.8	310	1.00	34.58	6
ATON	1 17604	CG1	ILE G11	19 7	6.414	96.028	68.7	777	1.00	34.64	6
ATON		CD1	ILE G11		6.379	94.635				35.67	6
ATON		C	ILE G11		5.425	97.711				45.61	6
ATON		Õ	ILE G11		4.536	96.901				45.90	8
ATOM		N	SER G11		5.542	98.858				37.17	7
ATOM		CA	SER G11		4.560	99.159				36.77	6
			SER GII		5.193	99.967				44.93	6
ATON		CB									
ATON		OG G	SER G11		5.383	99.135				46.11	8
ATON		C	SER G11		3.344	99.871				36.37	6
ATOI		0	SER G11		3.306	101.097				37.49	8
ATON		N	VAL G11		2.349	99.076				32.16	7
MOTA		CA	VAL G11		1.122	99.582				30.39	6
ATOI	1 17616	CB	VAL G11		0.135	98.460				58.71	6
MOTA	I 17617	CG1	VAL G11	21 6	9.005	98.963	70.9	963	1.00	60.29	6
ATON	I 17618	CG2	VAL G11	21 7	0.840	97.290	71.1	L72	1.00	59.82	6
ATON	17619	С	VAL G11	21 7	0.464	100.589	72.9	980	1.00	29.18	6
ATOM		0	VAL G11		0.232				1.00	29.18	8
ATON		N	PRO G11		0.152	101.777				24.86	7
ATON		CD	PRO G11		0.535	102.239				16.24	6
ATON		CA	PRO G11		9.516					26.04	6
ATON		CB	PRO G11		9.845	104.066				17.24	6
ATOM		CG	PRO G11		9.737					15.41	6
ATON		C	PRO G11		8.019	102.720				27.64	6
ATON		0	PRO G11		7.317					27.62	8
ATON		N	LEU G11		7.528					86.74	7
ATOI		CA	LEU G11		6.101					88.45	6
ATOI		CB	LEU G11		5.843	102.158				21.15	6
ATOI	17631	CG	LEU G11	23 6	5.935	100.633	76.0)15	1.00	18.97	6

ATOM	17632	CD1	LEU	G1123	67.235	100.180	75.409	1.00 16.38	6
MOTA	17633	CD2		G1123	65.792	100.068	77.399	1.00 17.40	6
MOTA	17634	С	LEU	G1123	65.540	104.308	74.850	1.00 91.01	6
ATOM	17635	0		G1123	64.337	104.525	75.016	1.00 92.76	8
MOTA	17636	N		G1124	66.443	105.270	74.699	1.00 48.00	7
MOTA	17637	CA		G1124		106.682	74.677	1.00 47.33	6
MOTA	17638	CB		G1124		107.425	75.832	1.00 29.41	6
ATOM ATOM	17639 17640	CG CD1		G1124 G1124	66.153 65.100	107.188 107.969	77.182 77.623	1.00 26.55 1.00 25.74	6 6
ATOM	17641	CD1		G1124 G1124	66.660	107.303	78.036	1.00 25.74	6
ATOM	17642	CE1		G1124	64.560	107.783	78.902	1.00 25.32	6
ATOM	17643	CE2		G1124		106.015	79.314	1.00 24.75	6
ATOM	17644	CZ		G1124		106.805	79.748	1.00 24.40	6
ATOM	17645	C		G1124		107.170	73.370	1.00 49.32	6
MOTA	17646	0	PHE	G1124	67.845	106.815	73.058	1.00 48.69	8
MOTA	17647	N	GLN	G1125	65.954	107.964	72.610	1.00 50.63	7
MOTA	17648	CA		G1125	66.434	108.526	71.343	1.00 54.26	6
MOTA	17649	CB		G1125	65.771	107.834	70.149	1.00111.66	6
MOTA	17650	CG		G1125	66.695	106.889	69.378	1.00115.56	6
ATOM	17651	CD OF		G1125	67.815	107.617	68.649	1.00116.51	6
MOTA	17652	OE1 NE2		G1125	67.568	108.404 107.355	67.732	1.00117.20 1.00116.80	8 7
ATOM AOTA	17653 17654	NE∠ C		G1125 G1125	69.053 66.112	110.012	69.054 71.311	1.00116.80	6
ATOM	17655	0		G1125	65.425	110.518	72.203	1.00 55.43	8
ATOM	17656	N		G1126		110.723	70.292	1.00 64.27	7
ATOM	17657	CA		G1126		112.156	70.234	1.00 67.94	6
ATOM	17658	CB		G1126	67.529	112.938	70.719	1.00 71.09	6
ATOM	17659	CG		G1126	67.189		71.142	1.00 70.18	6
MOTA	17660	SD	MET	G1126	68.650	115.351	71.215	1.00 70.84	16
MOTA	17661	CE		G1126	69.645	114.448	72.460	1.00 69.37	6
MOTA	17662	С		G1126	65.843	112.772	68.917	1.00 70.21	6
MOTA	17663	0		G1126		112.280	67.822	1.00 71.17	8
ATOM	17664	N		G1127		113.886	69.069	1.00 83.97 1.00 85.60	7 6
ATOM	17665 17666	CA CB		G1127 G1127	63.141	114.660 115.068	67.973 68.372	1.00 85.80	6
ATOM ATOM	17667	CB		G1127		116.303	67.648	1.00 90.91	6
ATOM	17668	OD1		G1127		117.425	68.032	1.00 90.86	8
ATOM	17669	OD2		G1127		116.149	66.701	1.00 90.61	8
ATOM	17670	C		G1127		115.880	67.709	1.00 86.98	6
ATOM	17671	0	ASP	G1127	65.397	116.873	68.437	1.00 87.91	8
MOTA	17672	N		G1128		115.791	66.676	1.00 69.91	7
ATOM	17673	CA		G1128		116.883	66.318	1.00 70.82	6
ATOM	17674	СВ		G1128		116.591	64.986	1.00119.73	6
ATOM	17675	CG		G1128		115.307	64.970	1.00121.05	6
ATOM	17676 17677	CD OE1		G1128 G1128	69.453	115.076 115.067	63.650 62.587	1.00122.37 1.00123.48	6 8
ATOM ATOM	17678	OE1		G1128		114.897	63.681	1.00123.49	8
ATOM	17679	C		G1128		118.227	66.216	1.00 71.11	6
ATOM	17680	Ŏ		G1128		119.273	66.270	1.00 70.66	8
ATOM	17681	N		G1129		118.182	66.062	1.00 27.26	7
ATOM	17682	CA		G1129	64.337	119.374	65.953	1.00 28.36	6
ATOM	17683	CB		G1129		119.013	65.839	1.00195.38	6
MOTA	17684	CG1		G1129		120.277	65.767	1.00196.97	6
ATOM	17685	CG2		G1129		118.150	64.614	1.00196.60	6
MOTA	17686	C		G1129		120.231	67.179	1.00 27.77	6 8
ATOM	17687	0	VAL	G1129	03.180	121.267	67.103	1.00 27.79	Ö

ATOM ATOM ATOM ATOM ATOM	17688 17689 17690 17691 17692	N CA CB OG1 CG2	THR G11 THR G11 THR G11 THR G11 THR G11	30 30 30 30		120.55 121.03 121.46 122.19	58 6 30 7 66 6 95 7	58.310 59.552 70.086 58.993 71.055	1.00 1.001 1.001 1.001	79.94 82.10 11.33 112.30 112.94	7 6 6 8 6
ATOM	17693 17694	C 0	THR G11 THR G11		64.146		86 7	70.609 71.520	1.00	83.35 84.33	6 8
ATOM ATOM	17695 17696	N CA	ARG G11 ARG G11		66.108 66.956	119.54 118.74		70.460 71.334		64.02 65.04	7 6
ATOM	17697	СВ	ARG G11		68.240	119.50	03 7	71.674	1.00	77.20	6
MOTA	17698	CG	ARG G11		68.967			70.496 70.138	$1.00 \\ 1.00$	75.94 75.39	6 6
ATOM ATOM	17699 17700	CD NE	ARG G11 ARG G11		68.374 69.361			59.527	1.00	74.87	7
MOTA	17701	CZ	ARG G11	31	70.494	122.75	53 7	70.119	1.00	75.39	6
ATOM	17702	NH1	ARG G11		70.789	122.32		71.333	1.00	75.70	7 7
ATOM ATOM	17703 17704	NH2 C	ARG G11 ARG G11		71.342 66.288	123.56 118.29		59.505 72.627	$1.00 \\ 1.00$	76.69 66.57	6
MOTA	17705	Ö	ARG G11		66.400	118.97	72	73.650	1.00	67.44	8
MOTA	17706	N	THR G11		65.606	117.16		72.590		110.70	7
ATOM ATOM	17707 17708	CA CB	THR G11		64.943 63.589	116.65 117.35		73.783 74.014		112.07 142.97	6 6
ATOM	17709	OG1	THR G11		63.800			74.154	1.00	143.10	8
ATOM	17710	CG2	THR G11		62.922	116.82		75.277		143.32	6
ATOM ATOM	17711 17712	С О	THR G11		64.703 63.730	115.15 114.70		73.702 73.093		l12.98 l14.26	6 8
ATOM	17713	N	LEU G11		65.592	114.3	78	74.321	1.00	130.03	7
ATOM	17714	CA	LEU G11		65.485	112.92		74.327		129.99	6 6
ATOM ATOM	17715 17716	CB CG	LEU G11 LEU G11		66.421 67.911			75.373 75.172		113.82 115.74	6
ATOM	17717	CD1	LEU G11	33	68.641	112.2	71 '	76.457	1.00	115.14	6
ATOM	17718	CD2	LEU G11		68.454	111.7 112.4		74.005 74.634		116.19 129.63	6 6
MOTA MOTA	17719 17720	C 0	LEU G11 LEU G11		64.063 63.295	113.24		75.226		130.87	8
MOTA	17721	Ň	ARG G11	34	63.720	111.2	73 ′	74.237	1.00	58.57	7
MOTA	17722	CA	ARG G11 ARG G11		62.381 61.524	110.74 110.9		74.463 73.213		57.49 165.44	6 6
MOTA MOTA	17723 17724	CB CG	ARG G11		60.141	110.3		73.215		167.83	6
ATOM	17725	CD	ARG G11	34	59.116	111.09	95 ′	74.049	1.00	169.50	6
MOTA	17726 17727	NE CZ	ARG G11 ARG G11		57.753 56.653	110.63 111.19		73.767 74.274		171.23 173.32	7 6
ATOM ATOM	17728		ARG G11		56.742			75.099		175.05	7
MOTA	17729	NH2	ARG G11	.34	55.461	110.7	11 '	73.949		173.72	7
MOTA MOTA	17730 17731	C 0	ARG G11 ARG G11		62.455 63.454			74.781 74.489		56.04 56.13	6 8
ATOM	17732	N	LEU G11		61.406			75.403		72.40	7
ATOM	17733	CA	LEU G11		61.364			75.719		71.34	6
ATOM ATOM	17734 17735	CB CG	LEU G11 LEU G11		60.195 59.601			76.662 77.455		151.60 153.45	6 6
ATOM	17736	CD1	LEU G11	.35	58.546	107.6	68 '	78.419	1.00	153.65	6
MOTA	17737	CD2	LEU G11 LEU G11		60.688 61.102			78.224 74.356		154.75 69.68	6 6
MOTA MOTA	17738 17739	C O	LEU GII		60.004			74.330 73.829		69.74	8
MOTA	17740	N	ARG G11	.36	62.105	106.0	52 '	73.772		58.02	7
MOTA MOTA	17741 17742	CA CB	ARG G11 ARG G11		61.961 63.115			72.440 72.182		55.77 61.16	6 6
MOTA	17743	CG	ARG G11		63.512			70.726		59.77	6

MOTA	17744	CD	ARG	G1136	64	1.776	103.49	70.627	1.00	59.47	6
ATOM	17745	NE		G1136	65	5.057	103.07		1.00		7
MOTA	17746	CZ		G1136		5.798	102.00		1.00		6
MOTA	17747	NH1		G1136		5.330	101.26		1.00		7
ATOM	17748	NH2		G1136		5.002	101.67		1.00		7
ATOM	17749	C		G1136		0.623	104.722		1.00		6
ATOM	17750	0		G1136		0.118	104.30			55.68 61.13	8 7
ATOM ATOM	17751 17752	N CA		G1137 G1137		0.029 3.722	104.57			60.84	6
ATOM	17753	CB		G1137		3.722	103.32		1.00		6
MOTA	17754	CG		G1137		3.958	103.83			59.33	6
ATOM	17755	CD		G1137		3.262	104.04		1.00		6
MOTA	17756	CE		G1137		9.247	103.883		1.00	62.98	6
MOTA	17757	NZ		G1137	58	3.628	104.07	1 64.800	1.00	64.64	7
MOTA	17758	С		G1137		3.714	102.43		1.00		6
MOTA	17759	0		G1137		9.581	101.65		1.00		8
MOTA	17760	N		G1138		7.715	102.07		1.001		7
MOTA	17761	CA		G1138		7.506	100.71		1.001		6 6
ATOM ATOM	17762 17763	CB CG		G1138 G1138		5.207 5.425	100.655 101.97		1.001		6
ATOM	17764	CD		G1138		1.776	102.33		1.001		6
ATOM	17765	NE		G1138		1.181	103.66		1.001		7
ATOM	17766	CZ		G1138		3.394	104.14		1.001		6
ATOM	17767	NH1		G1138		3.097	103.41		1.001	19.84	7
ATOM	17768	NH2		G1138		2.901	105.37		1.001		7
ATOM	17769	С		G1138		7.440	99.73		1.001		6
ATOM	17770	0		G1138		5.417	99.08		1.001		8
ATOM	17771	N		G1139		3.544	99.62		1.00		7
ATOM	17772	CA		G1139 G1139		3.616 7.782	98.72 99.26		$1.00 \\ 1.00$	36.28	6 6
ATOM	17773 17774	CB OG		G1139		7.935	98.48			32.66	8
ATOM	17775	C		G1139		0.048	98.54			84.63	6
ATOM	17776	Ö		G1139		0.606	97.45			84.85	8
ATOM	17777	N		G1140	6	0.638	99.61	4 68.777	1.00	58.25	7
ATOM	17778	CA	ASP	G1140		2.006	99.56			53.75	6
ATOM	17779	CB		G1140		2.511	100.95			66.26	6
ATOM	17780	CG		G1140		1.431	101.84			66.48	6
ATOM	17781	OD1		G1140		0.700 1.322	101.40			66.87 67.08	8 8
ATOM ATOM	17782 17783	OD2 C		G1140 G1140		2.910	98.91			50.32	6
ATOM	17784	Ö		G1140		3.761	98.10			49.17	8
ATOM	17785	N		G1141		2.722	99.29		1.00		7
MOTA	17786	CA		G1141		3.510	98.73		1.00		6
MOTA	17787	CB		G1141		2.913	99.10		1.00		6
MOTA	17788	CG2		G1141		3.772	98.52		1.00		6
MOTA	17789	CG1		G1141		2.775	100.60		1.00		6
MOTA	17790	CD1		G1141		2.006	101.00		1.00 1.00		6 6
ATOM ATOM	17791 17792	C O		G1141 G1141		3.430 4.448	97.23 96.54			36.04	8
ATOM	17793	N		G1141		2.191	96.73			58.56	7
MOTA	17794	CA		G1142		1.870	95.31			57.76	6
MOTA	17795	CB		G1142		0.365	95.12			66.98	6
MOTA	17796	CG		G1142		9.934	93.70			68.24	6
ATOM	17797	CD		G1142		3.440	93.58			69.98	6
ATOM	17798	OE1		G1142		7.799	94.06			71.80	8
MOTA	17799	OE2	GПП	G1142	5	7.902	93.00	4 70.271	1.00	10.75	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	17800 17801 17802 17803 17804 17805 17806 17807 17808 17809	CONCACBOOK	GLU G1142 GLU G1142 SER G1143 SER G1143 SER G1143 SER G1143 SER G1143 GLY G1144 GLY G1144	62.347 62.745 62.277 62.705 62.168 61.788 64.226 64.878 64.783 66.229	94.802 93.649 95.686 95.385 96.447 95.882 95.411 94.874 96.023 96.102	70.003 69.864 69.022 67.679 66.715 65.473 67.712 66.828 68.753 68.887	1.00 55.54 1.00 54.54 1.00 45.57 1.00 42.50 1.00 23.64 1.00 20.91 1.00 40.89 1.00 41.57 1.00 32.49 1.00 32.11	6 8 7 6 6 8 6 8 7 6
MOTA	17810	C	GLY G1144	66.815	95.201	69.966	1.00 31.50	6
MOTA	17811 17812	N O	GLY G1144 LEU G1145	68.032 65.944	95.009 94.624	70.052 70.782	1.00 31.35 1.00 57.42	8 7
ATOM ATOM	17812	CA	LEU G1145	66.393	93.763	71.853	1.00 55.12	6
MOTA	17814	CB	LEU G1145	65.964	94.346	73.193	1.00 16.96	6
ATOM	17815	CG	LEU G1145	66.481	95.743	73.548	1.00 14.26	6
MOTA	17816	CD1	LEU G1145	65.982	96.114	74.936	1.00 13.87	6
MOTA	17817	CD2	LEU G1145	68.001	95.775	73.492	1.00 13.87	6
MOTA	17818	C	LEU G1145	65.906	92.328	71.752 71.897	1.00 55.41 1.00 57.87	6 8
ATOM	17819	0	LEU G1145 TYR G1146	66.695 64.614	91.396 92.137	71.504	1.00 37.87	7
ATOM ATOM	17820 17821	N CA	TYR G1146	64.066	90.777	71.418	1.00 27.78	6
ATOM	17822	CB	TYR G1146	62.729	90.781	70.682	1.00 21.95	6
ATOM	17823	CG	TYR G1146	62.075	89.423	70.597	1.00 20.28	6
MOTA	17824	CD1	TYR G1146	60.697	89.308	70.495	1.00 20.32	6
MOTA	17825	CE1	TYR G1146	60.088	88.063	70.389	1.00 19.89	6 6
ATOM	17826	CD2	TYR G1146	62.829	88.254	70.594 70.489	1.00 19.89 1.00 19.67	6
MOTA	17827 17828	CE2 CZ	TYR G1146 TYR G1146	62.237 60.864	87.006 86.911	70.489	1.00 19.07	6
MOTA MOTA	17828	OH	TYR G1146	60.268	85.669	70.332	1.00 19.11	8
MOTA	17830	C	TYR G1146	64.973	89.752	70.755	1.00 28.02	6
ATOM	17831	Ō	TYR G1146	65.232	89.832	69.570	1.00 28.65	8
MOTA	17832	N	GLY G1147	65.431	88.767	71.510	1.00 44.62	7
MOTA	17833	CA	GLY G1147	66.268	87.755	70.904	1.00 48.07	6
ATOM	17834	C	GLY G1147	67.758 68.563	87.989 87.165	71.027 70.576	1.00 50.10 1.00 52.13	6 8
ATOM ATOM	17835 17836	N O	GLY G1147 ARG G1148	68.140	89.104	71.634	1.00 32.13	7
ATOM	17837	CA	ARG G1148	69.550	89.407	71.819	1.00 39.55	6
ATOM	17838	CB	ARG G1148		90.876	72.159	1.00 42.03	6
ATOM	17839	CG	ARG G1148	69.228	91.849	71.113	1.00 42.98	6
MOTA	17840	CD	ARG G1148	70.093		69.879	1.00 44.28	6
MOTA	17841	ΝE	ARG G1148	70.036	93.067	69.161	1.00 45.14 1.00 45.75	7
ATOM	17842	CZ	ARG G1148	70.794 71.668	93.351 92.454	68.112 67.659	1.00 45.75	6 7
MOTA MOTA	17843 17844	NH2	ARG G1148 ARG G1148	70.681	94.534	67.524	1.00 45.78	7
ATOM	17845	C	ARG G1148	70.149	88.571	72.952	1.00 40.39	6
ATOM	17846	Ö	ARG G1148	69.444	87.892	73.688	1.00 40.17	8
ATOM	17847	N	VAL G1149	71.461	88.645	73.093	1.00 29.90	7
MOTA	17848	CA	VAL G1149	72.181	87.924	74.137	1.00 31.96	6
ATOM	17849	CB	VAL G1149	73.099	86.832	73.479	1.00 29.71 1.00 28.46	6 6
ATOM	17850	CG1 CG2		74.543 72.508	86.929 85.443	73.986 73.727	1.00 28.40	6
MOTA ATOM	17851 17852	CGZ	VAL G1149		88.984	74.911	1.00 34.86	6
ATOM	17853	Õ	VAL G1149		89.553	74.386	1.00 35.46	8
MOTA	17854	Ň	LEU G1150	72.587	89.271	76.147	1.00 50.78	7
MOTA	17855	CA	LEU G1150	73.272	90.291	76.934	1.00 54.05	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	17856 17857 17858 17859 17860 17861 17862 17863 17864 17865 17866	CB CG CD1 CD2 C O N CA CB C	LEU LEU LEU LEU ALA ALA ALA	G1150 G1150 G1150 G1150 G1150 G1151 G1151 G1151 G1151 G1151	72.693 71.419 71.212 71.535 74.776 75.265 75.503 76.957 77.503 77.536 78.667	90.371 91.206 91.485 92.521 90.099 88.977 91.211 91.176 91.823 91.843 92.361	78.347 78.526 80.010 77.776 77.006 77.055 77.013 77.053 75.804 78.309 78.319	1.00 36.77 1.00 36.53 1.00 36.78 1.00 35.95 1.00 56.56 1.00 57.24 1.00 68.82 1.00 71.07 1.00 36.93 1.00 72.81 1.00 74.07	66666876668
ATOM ATOM	17867 17868	N CA		G1152 G1152	76.737 77.121	91.820 92.368	79.369 80.662	1.00 80.03 1.00 81.05	7 6
ATOM ATOM	17869 17870	CB CG		G1152 G1152	77.810 79.046	93.733 93.904	80.503 81.401	1.00120.97 1.00124.97	6 6
MOTA	17871	CD		G1152	79.642	95.313	81.317	1.00127.44	6
MOTA	17872	NE	ARG	G1152	80.720	95.525	82.285	1.00127.30	7
MOTA	17873	CZ		G1152	81.319	96.694	82.505	1.00127.42	6
MOTA	17874	NH1		G1152	80.956	97.779	81.831	1.00127.13 1.00127.90	7 7
ATOM ATOM	17875 17876	NH2 C		G1152 G1152	82.285 75.856	96.784 92.489	83.407 81.500	1.00127.90	6
MOTA	17877	Ö		G1152	74.945	93.238	81.159	1.00 79.94	8
MOTA	17878	N		G1153	75.811	91.720	82.582	1.00 45.10	7
MOTA	17879	CA		G1153	74.679	91.689	83.498	1.00 44.26	6
MOTA	17880	CB		G1153	75.180 76.115	91.307 92.330	84.879 85.467	1.00 87.58 1.00 92.13	6 6
ATOM ATOM	17881 17882	CG CD		G1153 G1153	76.113	91.795	86.663	1.00 92.13	6
ATOM	17883	OE1		G1153	76.216	91.116	87.494	1.00 96.43	8
ATOM	17884	OE2		G1153	78.076	92.056	86.775	1.00 97.56	8
MOTA	17885	C		G1153	73.949	93.024	83.571	1.00 42.37	6
ATOM	17886	0		G1153	74.583	94.066	83.575	1.00 42.38	8 7
ATOM	17887 17888	N CA		G1154 G1154	72.620 71.837	92.996 94.226	83.627 83.699	1.00 18.51 1.00 15.82	6
ATOM	17889	CB		G1154	70.963	94.433	82.422	1.00 13.87	6
ATOM	17890	CG1		G1154	69.832	95.439	82.693	1.00 13.87	6
ATOM	17891			G1154	71.826	94.924	81.267	1.00 13.87	6
ATOM	17892	C		G1154	70.921	94.187	84.903	1.00 16.07 1.00 15.97	6 8
ATOM ATOM	17893 17894	O N		G1154 G1155	69.783 71.418	93.780 94.601	84.790 86.061	1.00 13.97	7
ATOM	17895	CA		G1155	70.603	94.626	87.271	1.00 30.30	6
ATOM	17896	СВ		G1155	71.479	94.603			6
ATOM	17897	CG	GLU	G1155	72.887	94.068	88.327	1.00134.02	6
ATOM	17898	CD		G1155	73.847	95.129	87.828	1.00136.34	6
MOTA MOTA	17899 17900	OE1 OE2		G1155 G1155	73.929 74.529	96.202 94.891	88.465 86.807	1.00136.70 1.00137.03	8 8
ATOM	17901	C		G1155	69.828	95.931	87.242	1.00 38.44	6
MOTA	17902	Ō		G1155	70.275	96.902	86.643	1.00 37.81	8
MOTA	17903	N		G1156	68.673	95.950	87.891	1.00 34.56	7
MOTA	17904	CA		G1156	67.836	97.139	87.941	1.00 35.23	6
ATOM ATOM	17905 17906	CB C		G1156 G1156	67.807 66.431	97.830 96.749	86.600 88.324	1.00 54.56 1.00 36.34	6 6
ATOM	17907	0		G1156	66.097	95.566	88.354	1.00 36.10	8
MOTA	17908	N	LEU	G1157	65.615	97.760	88.601	1.00 41.55	7
MOTA	17909	CA		G1157	64.219	97.585	88.988	1.00 43.21	6
MOTA	17910	CB		G1157	63.319	97.821	87.772	1.00 66.43	6 6
MOTA	17911	CG	υEО	G1157	61.938	98.419	88.049	1.00 67.76	U

ATOM	17912	CD1	LEU	G1157	61.384	99.005	86.764	1.00 68.31	6
MOTA	17913	CD2		G1157	60.996	97.367	88.631	1.00 68.02	6
MOTA	17914	С	LEU	G1157	63.961	96.206	89.586	1.00 44.00	6
ATOM	17915	0		G1157	63.078	95.477	89.147	1.00 43.44	8
ATOM	17916	N		G1158	64.765	95.847	90.581	1.00 57.48	7
ATOM	17917	CA		G1158	64.598	94.569	91.243	1.00 59.72	6
ATOM	17918	C		G1158	65.497	93.443	90.778	1.00 61.27	6
ATOM	17919	O		G1158	66.308	92.925	91.558	1.00 61.87	8
ATOM ATOM	17920 17921	N CA		G1159 G1159	65.374	93.072	89.506	1.00 48.58	7
ATOM	17921	CB		G1159 G1159	66.146 65.312	91.954 91.182	88.966 87.936	1.00 50.73 1.00101.21	6
ATOM	17923	CG		G1159	63.888	90.848	88.399	1.00101.21	6 6
ATOM	17924	CD		G1159	63.844	90.283	89.825	1.00103.09	6
ATOM	17925	NE		G1159	62.476	90.060	90.294	1.00103.94	7
ATOM	17926	CZ		G1159	62.158	89.753	91.547	1.00104.43	6
MOTA	17927	NH1		G1159	63.105	89.636	92.466	1.00105.91	7
MOTA	17928	NH2	ARG	G1159	60.894	89.550	91.881	1.00103.85	7
MOTA	17929	С		G1159	67.495	92.277	88.360	1.00 51.23	6
MOTA	17930	0		G1159	67.775	93.415	87.990	1.00 52.62	8
MOTA	17931	N		G1160	68.332	91.246	88.294	1.00 37.06	7
ATOM	17932	CA		G1160	69.666	91.333	87.718	1.00 38.02	6
MOTA	17933	CB		G1160	70.740	90.960	88.743	1.00149.97	6
MOTA	17934 17935	CG		G1160 G1160	70.837	91.906	89.921	1.00154.14	6
ATOM ATOM	17935	CD NE		G1160 G1160	72.215 72.470	91.837 92.990	90.562	1.00157.15 1.00160.00	6 7
ATOM	17937	CZ		G1160	73.652	93.274	91.420 91.959	1.00160.00	6
MOTA	17938	NH1		G1160	74.694	92.487	91.728	1.00162.23	7
ATOM	17939	NH2		G1160	73.796	94.345	92.727	1.00162.30	7
ATOM	17940	C		G1160	69.646	90.295	86.613	1.00 37.25	6
ATOM	17941	0	ARG	G1160	69.366	89.125	86.877	1.00 36.75	8
ATOM	17942	N		G1161	69.931	90.720	85.385	1.00 54.98	7
ATOM	17943	CA		G1161	69.919	89.817	84.235	1.00 55.36	6
ATOM	17944	CB		G1161	69.287	90.521	83.032	1.00 39.02	6
MOTA	17945	CG		G1161	68.000	91.332	83.211	1.00 38.07	6
ATOM ATOM	17946 17947	CD1 CD2		G1161 G1161	67.606 66.877	91.876 90.491	81.862 83.788	1.00 37.72	6
ATOM	17947	CDZ		G1161	71.329	89.362	83.868	1.00 39.48 1.00 55.94	6 6
MOTA	17949	0		G1161	72.061	90.092	83.202	1.00 55.42	8
MOTA	17950	Ň		G1162	71.697	88.152	84.290	1.00 55.76	7
ATOM	17951	CA		G1162	73.029	87.615	84.023	1.00 57.35	6
ATOM	17952	CB	GLU	G1162	73.070	86.108	84.302	1.00136.81	6
MOTA	17953	CG		G1162	71.720	85.414	84.278	1.00139.78	6
MOTA	17954	CD		G1162	71.846	83.900	84.317	1.00142.06	6
MOTA	17955	OE1		G1162	71.912	83.280	83.233	1.00143.37	8
ATOM	17956	OE2		G1162	71.893	83.332	85.431	1.00144.06	8
ATOM	17957	C		G1162	73.518	87.893	82.605	1.00 57.20	6
ATOM ATOM	17958 17959	N O		G1162 G1163	72.713 74.843	88.089 87.911	81.688 82.439	1.00 57.41 1.00 38.52	8
ATOM	17960	CA		G1163	75.463	88.180	81.146	1.00 38.32	7 6
ATOM	17961	CB		G1163	76.963	88.448	81.298	1.00 95.66	6
ATOM	17962	CG		G1163	77.576	89.123	80.078	1.00 98.93	6
ATOM	17963	CD		G1163	78.718	88.343	79.454	1.00102.02	6
MOTA	17964	OE1	GLU	G1163	79.711	88.066	80.160	1.00103.81	8
MOTA	17965	OE2		G1163	78.625	88.016	78.249	1.00104.08	8
ATOM	17966	C		G1163	75.270	87.005	80.221	1.00 36.30	6
MOTA	17967	0	GĽŰ	G1163	75.274	85.860	80.664	1.00 35.69	8

3 CDOM	17060	ът	CT V	01164	75.096	87.292	78.935	1.00 72.10	7
ATOM	17968	N		G1164					7
ATOM	17969	CA		G1164	74.926	86.237	77.954	1.00 71.36	6
ATOM	17970	С		G1164	73.515	85.705	77.820	1.00 70.58	6
ATOM	17971	0		G1164	73.186	85.055	76.837	1.00 71.82	8
ATOM	17972	N	ARG	G1165	72.672	85.960	78.804	1.00 65.61	7
MOTA	17973	CA	ARG	G1165	71.308	85.477	78.728	1.00 64.60	6
MOTA	17974	СВ		G1165	70.574	85.866	80.001	1.00143.03	6
ATOM	17975	CG		G1165	69.082	85.674	79.940	1.00145.42	6
ATOM	17976	CD		G1165	68.427	86.446	81.050	1.00145.42	6
								1.00140.39	7
ATOM	17977	NE		G1165	66.979	86.364	80.984		
MOTA	17978	CZ		G1165	66.175	87.024	81.804	1.00151.35	6
ATOM	17979	NH1		G1165	66.691	87.809	82.738	1.00152.47	7
ATOM	17980	NH2		G1165	64.862	86.894	81.700	1.00152.96	7
MOTA	17981	С	ARG	G1165	70.615	86.104	77.517	1.00 62.91	6
MOTA	17982	0	ARG	G1165	71.052	87.151	77.032	1.00 64.15	8
MOTA	17983	N	TYR	G1166	69.553	85.464	77.019	1.00 55.02	7
ATOM	17984	CA		G1166	68.783	85.999	75.887	1.00 51.39	6
ATOM	17985	CB		G1166	68.379	84.912	74.902	1.00 32.01	6
MOTA	17986	CG		G1166	69.454	84.068	74.241	1.00 30.78	6
MOTA	17987	CD1		G1166	70.109	83.063	74.938	1.00 30.70	6
								1.00 30.12	
MOTA	17988	CE1		G1166	70.874	82.116	74.265		6
MOTA	17989	CD2		G1166	69.628	84.113	72.855	1.00 29.93	6
MOTA	17990	CE2		G1166	70.384	83.177	72.190	1.00 28.19	6
MOTA	17991	CZ		G1166	70.991	82.178	72.893	1.00 27.43	6
ATOM	17992	OH		G1166	71.638	81.194	72.200	1.00 26.37	8
MOTA	17993	С	TYR	G1166	67.468	86.587	76.412	1.00 49.63	6
MOTA	17994	0	TYR	G1166	66.682	85.871	77.038	1.00 48.97	8
MOTA	17995	N	LEU	G1167	67.201	87.866	76.152	1.00 38.55	7
MOTA	17996	CA	LEU	G1167	65.948	88.441	76.641	1.00 36.68	6
MOTA	17997	CB		G1167	66.052	89.966	76.909	1.00 18.86	6
ATOM	17998	CG		G1167	66.973	91.014	76.279	1.00 17.61	6
MOTA	17999	CD1		G1167	68.296	91.045	77.011	1.00 16.78	6
MOTA	18000	CD1		G1167	67.137	90.737	74.818	1.00 18.49	6
					64.742	88.164	75.753	1.00 18.49	6
MOTA	18001	C		G1167					
ATOM	18002	0		G1167	64.769	88.398	74.547	1.00 35.26	8
MOTA	18003	N		G1168	63.684	87.654	76.375	1.00 33.21	7
ATOM	18004	CA		G1168	62.442	87.343	75.684	1.00 34.10	6
MOTA	18005	CB		G1168	61.685	86.244	76.438	1.00176.53	6
ATOM	18006	OG	SER	G1168	62.478	85.080	76.596	1.00181.29	8
MOTA	18007	С	SER	G1168	61.568	88.597	75.594	1.00 33.27	6
MOTA	18008	0	SER	G1168	61.861	89.614	76.220	1.00 32.22	8
MOTA	18009	N	LEU	G1169	60.499	88.522	74.806	1.00 24.19	7
MOTA	18010	CA	LEU	G1169	59.592	89.640	74.661	1.00 23.70	6
MOTA	18011	CB		G1169	58.363	89.221	73.862	1.00 36.88	6
ATOM	18012	CG		G1169	57.267	90.289	73.903	1.00 36.95	6
ATOM	18013	CD1		G1169	57.729	91.451	73.092	1.00 36.83	6
ATOM	18013	CD2		G1169	55.948	89.772	73.365	1.00 37.16	6
ATOM	18014	CDZ		G1169	59.166	90.055	76.060	1.00 37.10	6
ATOM	18015			G1169	58.713	91.179	76.286	1.00 24.09	8
		O							
ATOM	18017	N		G1170	59.316	89.125	76.997	1.00 47.21	7
ATOM	18018	CA		G1170	58.950	89.344	78.390	1.00 48.70	6
MOTA	18019	CB		G1170	58.909	88.003	79.128	1.00167.86	6
ATOM	18020	CG		G1170	58.327	88.046	80.535	1.00172.42	6
MOTA	18021	$^{\mathrm{CD}}$		G1170	56.883	88.509	80.559	1.00175.08	6
ATOM	18022	OE1		G1170	56.131	88.185	79.615	1.00176.00	8
MOTA	18023	OE2	GLU	G1170	56.496	89.186	81.533	1.00178.08	8

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	18024 18025 18026 18027 18028 18029 18030 18031 18032 18033 18034 18035 18036 18037 18038 18040 18041 18042 18043 18044 18045 18046		GLU ASP ASP ASP ASP ASP VAL VAL VAL VAL HIS HIS HIS HIS	G1170 G1171 G1171 G1171 G1171 G1171 G1171 G1171 G1172 G1172 G1172 G1172 G1172 G1172 G1173 G1173 G1173 G1173 G1173 G1173	59.970 59.609 61.247 62.327 63.654 63.180 64.203 62.405 62.484 62.400 62.435 62.234 62.201 63.343 61.337 61.308 60.411 59.373 58.094 57.371 57.613 56.241	90.255 91.177 89.995 90.805 90.092 88.783 88.747 87.798 92.147 93.188 92.112 93.329 93.013 94.305 92.079 94.289 95.460 93.781 94.622 93.825 93.523 93.917 92.734	79.034 79.758 78.765 79.315 79.154 79.872 81.009 79.314 78.624 79.272 77.298 76.503 75.021 74.209 74.554 76.581 77.764 78.291 78.505 77.231 75.958 77.179	1.00 47.97 1.00 48.43 1.00 61.02 1.00 59.79 1.00 43.92 1.00 45.35 1.00 48.16 1.00 44.53 1.00 57.83 1.00 57.83 1.00 41.13 1.00 21.88 1.00 19.66 1.00 22.09 1.00 41.77 1.00 43.44 1.00 36.80 1.00 38.40 1.00110.57 1.00115.58 1.00117.64 1.00118.90	6876668868766668766667
ATOM ATOM	18047 18048	CE1 NE2		G1173 G1173	55.818 56.633	92.656 93.366	75.929 75.168	1.00119.62 1.00120.13	6 7
MOTA	18049	С	HIS	G1173	59.961	95.131	79.591	1.00 37.73	6
MOTA	18050	0		G1173	60.161	96.333	79.731	1.00 38.45	8 7
ATOM ATOM	18051 18052	N CA		G1174 G1174	60.292	94.229 94.645	80.517 81.797	1.00 55.21 1.00 53.36	6
ATOM	18052	CB		G1174	61.608	93.478	82.479	1.00 33.30	6
ATOM	18054	CG		G1174	62.478	93.888	83.665	1.00 42.45	6
ATOM	18055	CD1		G1174	61.984	94.721	84.667	1.00 41.72	6
ATOM	18056	CD2		G1174	63.780	93.401	83.794	1.00 40.90	6
MOTA	18057	CE1	PHE	G1174	62.772	95.058	85.776	1.00 39.75	6
ATOM	18058	CE2		G1174	64.566	93.735	84.898	1.00 39.02	6
MOTA	18059	CZ		G1174	64.060	94.563	85.889	1.00 39.10	6
ATOM	18060	C		G1174	61.857	95.787	81.569	1.00 53.30	6
ATOM	18061	O		G1174 G1175	61.699 62.863	96.870 95.541	82.133 80.739	1.00 53.50 1.00 27.60	8 7
MOTA MOTA	18062 18063	N CA		G1175	63.838	96.565	80.433	1.00 27.00	6
ATOM	18064	CB		G1175	64.746	96.094	79.313	1.00 15.95	6
MOTA	18065	CG		G1175	65.808	95.147	79.835	1.00 14.06	6
MOTA	18066	CD1	LEU	G1175	66.453	94.418	78.695	1.00 15.14	6
ATOM	18067	CD2		G1175	66.827	95.938	80.618	1.00 13.87	6
MOTA	18068	C		G1175	63.134	97.857	80.037	1.00 27.85	6
MOTA MOTA	18069 18070	O		G1175 G1176	63.455 62.168	98.926 97.773	80.539 79.140	1.00 28.80 1.00 31.20	8 7
ATOM	18070	N CA		G1176	61.458	98.973	78.760	1.00 31.20	6
ATOM	18072	CB		G1176	60.353	98.669	77.760	1.00 20.35	6
ATOM	18073	CG2		G1176	59.263	99.730	77.839	1.00 20.02	6
ATOM	18074	CG1	ILE	G1176	60.961	98.572	76.369	1.00 19.33	6
MOTA	18075	CD1		G1176	59.943	98.477	75.274	1.00 19.69	6
ATOM	18076	C		G1176	60.840	99.643	79.978	1.00 36.85	6
ATOM ATOM	18077 18078	O N		G1176 G1177	60.769 60.384	100.866 98.855	80.039 80.945	1.00 36.89 1.00 71.25	8 7
ATOM	18078	CA		G1177	59.776	99.440	82.131	1.00 71.23	6
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	18080 18081 18082 18083 18084 18085 18086 18087 18088 18089	CB CG CE NZ C O N CA CB	LYS G1177 LYS G1177 LYS G1177 LYS G1177 LYS G1177 LYS G1177 LYS G1177 ALA G1178 ALA G1178	58.80 57.39 56.43 55.03 54.04 60.83 61.99 63.02 64.12	95 98.552 34 97.558 35 97.695 46 96.696 41 99.916 31 100.886 56 99.244 25 99.641	82.234 82.872 82.264 82.776 83.122 83.837 83.161 84.076	1.00132.30 1.00135.70 1.00137.66 1.00139.50 1.00138.30 1.00 76.49 1.00 78.61 1.00 51.20 1.00 51.49 1.00 19.49	6666768766
ATOM	18090	С	ALA G1178	63.58	34 100.985	83.612	1.00 51.85	6
${ t ATOM}$	18091 18092	N O	ALA G1178 ALA G1179	63.98 63.58			1.00 51.20 1.00 45.86	8 7
ATOM	18093	CA	ALA G1179	64.0			1.00 47.10	6
ATOM	18094	CB	ALA G1179	64.3			1.00141.45	6
ATOM	18095	C	ALA G1179	63.05			1.00 48.32	6
${f ATOM}$	18096 18097	N O	ALA G1179 GLU G1180		06 104.690 94 103.202		1.00 50.16 1.00 44.25	8 7
ATOM	18098	CA	GLU G1180	60.86			1.00 44.57	6
ATOM	18099	CB	GLU G1180	59.46			1.00 76.96	6
ATOM	18100	CG	GLU G1180	59.14			1.00 79.70	6
ATOM ATOM	18101 18102	CD OE1	GLU G1180 GLU G1180	57.66 57.09			1.00 81.71 1.00 83.04	6 8
ATOM	18103	OE2	GLU G1180	57.08			1.00 82.50	8
MOTA	18104	С	GLU G1180	61.03	34 104.567	84.194	1.00 43.84	6
ATOM	18105	0	GLU G1180	61.01			1.00 44.27	8
ATOM ATOM	18106 18107	N CA	ALA G1181 ALA G1181	61.20 61.43			1.00 74.61 1.00 74.64	7 6
ATOM	18108	CB	ALA G1181	61.75			1.00 98.13	6
ATOM	18109	C	ALA G1181	62.65	56 104.730	86.423	1.00 74.18	6
ATOM	18110	0	ALA G1181	62.78			1.00 75.56	8
ATOM ATOM	18111 18112	N CA	GLY G1182 GLY G1182	63.53 64.74			1.00 40.36 1.00 38.14	7 6
ATOM	18113	CA	GLY G1182	65.88			1.00 37.13	6
ATOM	18114	Ö	GLY G1182	66.3	52 104.972	87.031	1.00 38.37	8
MOTA	18115	N	GLU G1183	66.29			1.00 53.62	7
MOTA	18116	CA	GLU G1183 GLU G1183	67.39 66.84			1.00 52.00 1.00 61.14	6 6
ATOM ATOM	18117 18118	CB CG	GLU G1183	67.5			1.00 61.14	6
MOTA	18119	CD	GLU G1183	66.59	96 100.603	89.133	1.00 63.38	6
MOTA	18120		GLU G1183		76 100.891		1.00 64.65	8
ATOM ATOM	18121 18122	OE2 C	GLU G1183 GLU G1183	67.09	99 99.860 55 102.137		1.00 62.63 1.00 50.71	8 6
ATOM	18123	0	GLU G1183	69.43			1.00 50.20	8
MOTA	18124	N	VAL G1184	67.99		83.561	1.00 64.02	7
MOTA	18125	CA	VAL G1184	68.8			1.00 62.35	6
${f ATOM}$	18126 18127	CB CG1	VAL G1184 VAL G1184	68.68 69.88			1.00 61.39 1.00 61.64	6 6
ATOM	18128		VAL G1184	68.5			1.00 61.82	6
ATOM	18129	С	VAL G1184	68.50	56 102.760	81.180	1.00 61.52	6
ATOM	18130	0	VAL G1184	67.41			1.00 62.38	8
ATOM ATOM	18131 18132	N CA	ARG G1185 ARG G1185	69.59 69.40			1.00 23.18 1.00 21.35	7 6
ATOM	18133	CB	ARG G1185	70.02			1.00 34.14	6
MOTA	18134	CG	ARG G1185	69.22	25 106.141	80.150	1.00 32.31	6
MOTA	18135	CD	ARG G1185	69.3	32 107.535	79.598	1.00 31.73	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	18136 18137 18138 18139 18140 18141 18142 18143 18144 18145 18146 18147 18148 18149	NE CZ NH1 NH2 C O N CA CB CG CD OE1 OE2 C	ARG ARG ARG ARG GLU GLU GLU GLU GLU GLU GLU	G1185 G1185 G1185 G1185 G1185 G1186 G1186 G1186 G1186 G1186 G1186 G1186 G1186	68.282 67.977 68.700 66.936 69.946 69.406 71.037 71.595 73.061 73.329 74.740 75.000 75.595 71.489	109.5 109.8 110.2 103.3 102.4 101.6 103.4 103.6 103.2 104.2	523 880 259 155 337 414 683 036 478 678 295 200 246	79.976 79.325 78.276 79.698 77.852 76.746 77.990 76.868 76.637 76.279 75.749 74.587 76.498 77.366	1.00 30.5 1.00 29.8 1.00 29.9 1.00 29.6 1.00 20.0 1.00 46.3 1.00 48.6 1.00150.5 1.00160.6 1.00161.9 1.00164.1 1.00 48.6	60 6 11 7 18 7 18 6 10 8 10 6 10 6 10 6 10 6 10 6 10 6 10 6 10 6
MOTA MOTA	18150 18151	O N		G1186 G1187	71.292 71.599	99.2	276	78.568 76.459	1.00 48.9 1.00 27.6	54 7
MOTA	18152	CA		G1187	71.528	97.8		76.834	1.00 26.2 1.00 17.9	
MOTA	18153	CB		G1187	70.191 70.149	97.2 95.		76.378 76.856	1.00 17.3	
ATOM	18154 18155	CG1 CG2		G1187 G1187	68.976	97.		76.938	1.00 15.7	
ATOM ATOM	18156	CGZ		G1187	72.695	97.		76.177	1.00 27.1	
ATOM	18157	0		G1187	72.805	97.		74.964	1.00 26.7	
ATOM	18158	N		G1188	73.584			76.981	1.00 45.2	
MOTA	18159	CD		G1188	73.422	96.		78.441	1.00 87.4	
ATOM	18160	CA		G1188	74.775			76.555 77.860	1.00 45.4 1.00 87.2	
MOTA	18161	CB		G1188 G1188	75.516 74.399			78.794	1.00 87.2	
MOTA MOTA	18162 18163	CG C		G1188	74.384			75.909	1.00 45.2	
ATOM	18164	Ö		G1188	74.324			76.577	1.00 44.2	27 8
ATOM	18165	Ň		G1189	74.147			74.602	1.00 18.8	
MOTA	18166	CA		G1189	73.715			73.857	1.00 19.5	
MOTA	18167	CB		G1189	72.255			73.388	1.00 54.3	
MOTA	18168	CG1		G1189	72.157			71.880 73.904	1.00 53.3 1.00 56.3	
MOTA	18169	CG2		G1189 G1189	71.418 74.637			72.682	1.00 30.3	
ATOM ATOM	18170 18171	C 0		G1189	75.028			71.941	1.00 19.2	
ATOM	18172	N		G1190	74.977			72.528	1.00 39.	
ATOM	18173	CA		G1190	75.869	91.	278	71.467	1.00 42.4	
MOTA	18174	CB		G1190	76.465		937	71.876	1.00 72.8	
MOTA	18175	CG		G1190	77.099		978	73.240	1.00 75.8	
ATOM	18176	CD		G1190	78.285 77.888		050 651	73.318 73.252	1.00 77.8 1.00 79.	
MOTA	18177 18178	NE CZ		G1190 G1190	78.735		647	73.232	1.00 81.	
MOTA MOTA	18179	NH1		G1190	80.030		887	72.881	1.00 80.	
MOTA	18180	NH2		G1190	78.287		399	73.018	1.00 81.	76 7
ATOM	18181	C		G1190	75.189	91.	147	70.102	1.00 43.	65 6
ATOM	18182	0		G1190	74.259		368	69.935	1.00 44.	86 8
ATOM	18183	N		G1191	75.677		889	69.118	1.00 49.4	
ATOM	18184	CA		G1191	75.079 74.389		870 219	67.792 67.564	1.00 31.	
ATOM	18185 18186	CB OG		G1191 G1191	74.207		505	66.192	1.00 46.	
ATOM ATOM	18187	C		G1191 G1191	76.072		569	66.661	1.00 52.	86 6
MOTA	18188	Ö		G1191	77.272		702	66.841	1.00 52.	77 8
MOTA	18189	Ň		G1192	75.573	91.	132	65.487	1.00 39.	
MOTA	18190	CD		G1192	74.166		756	65.249	1.00 52.	
ATOM	18191	CA	PRO	G1192	76.383	90.	807	64.310	1.00 40.	60 6

ATOM ATOM	18192 18193	CB CG		G1192 G1192	75.331 74.261	90.544 89.888	63.240 64.012	1.00 51.16 1.00 51.67	6 6
ATOM	18194	C		G1192	77.342	91.920	63.896	1.00 42.52	6
ATOM	18195	Ö		G1192	78.437	91.646	63.389	1.00 43.76	8
MOTA	18196	N	LEU	G1193	76.935	93.172	64.101	1.00 67.69	7
MOTA	18197	CA	LEU	G1193	77.780	94.302	63.732	1.00 70.26	6
MOTA	18198	CB		G1193	77.117	95.619	64.126	1.00 70.36	6
MOTA	18199	CG		G1193	75.956	96.075	63.247	1.00 71.83	6
MOTA	18200	CD1		G1193	76.070	97.571	62.996	1.00 72.04	6
ATOM	18201	CD2		G1193	75.991	95.340	61.929	1.00 72.96	6
ATOM	18202	C		G1193	79.173	94.229	64.351	1.00 71.54	6
MOTA	18203	0		G1193	80.123	94.840	63.848	1.00 72.01	8
MOTA MOTA	18204 18205	N CA		G1194 G1194	79.283 80.535	93.471 93.293	65.439 66.151	1.00 28.21 1.00 29.10	7 6
MOTA	18205	CB		G1194 G1194	80.478	93.293	67.543	1.00 29.10	6
MOTA	18207	OG1		G1194	81.616	93.553	68.309	1.00 95.37	8
MOTA	18208	CG2		G1194	79.221	93.559	68.289	1.00 94.01	6
ATOM	18209	C		G1194	80.908	91.825	66.344	1.00 29.40	6
ATOM	18210	Ō		G1194	80.981	91.354	67.475	1.00 29.07	8
MOTA	18211	N	CYS	G1195	81.156	91.095	65.261	1.00109.03	7
MOTA	18212	CA	CYS	G1195	81.532	89.702	65.437	1.00111.64	6
MOTA	18213	СВ	CYS	G1195	80.381	88.790	65.059	1.00 54.80	6
MOTA	18214	SG		G1195	80.333	87.402	66.156	1.00 51.20	16
MOTA	18215	С		G1195	82.818	89.263	64.742	1.00114.47	6
MOTA	18216	0		G1195	83.103	89.646	63.606	1.00115.34	8
ATOM	18217	N		G1196	83.576	88.434	65.456	1.00107.79	7
MOTA	18218	CA		G1196	84.879	87.946	65.025	1.00111.57	6
ATOM	18219	CB		G1196	85.535	87.197	66.177	1.00113.65	6 6
MOTA MOTA	18220 18221	C O		G1196 G1196	84.998 86.112	87.118 86.851	63.749 63.294	1.00113.95 1.00114.22	8
ATOM	18222	N		G1197	83.886	86.708	63.156	1.00114.22	7
ATOM	18223	CA		G1197	83.993	85.914	61.939	1.00103.04	6
MOTA	18224	CB		G1197	83.339	84.533	62.130	1.00103.22	6
ATOM	18225	OG1		G1197	83.339	84.189	63.521	1.00103.44	8
ATOM	18226	CG2	THR	G1197	84.112	83.471	61.351	1.00103.53	6
MOTA	18227	С	THR	G1197	83.353	86.609	60.734	1.00113.33	6
MOTA	18228	0		G1197	82.145	86.493	60.525	1.00113.81	8
MOTA	18229	N		G1198	84.156	87.327	59.944	1.00208.87	7
MOTA	18230	CA		G1198	83.647	88.030	58.761	1.00208.87	6
MOTA	18231	CB		G1198	84.792	88.716	58.006	1.00 46.78	6
$ ext{MOTA}$	18232 18233	C		G1198 G1198	82.932 81.749	87.051 86.764	57.838 58.018	1.00208.87 1.00208.87	6
ATOM	18233	N O		G1198	83.658	86.546	56.847	1.00208.87	8 7
ATOM	18235	CA		G1199	83.104	85.585	55.900	1.00108.99	6
MOTA	18236	CB		G1199	84.244	84.780	55.264	1.00 88.96	6
MOTA	18237	CG		G1199	85.055	85.582	54.270	1.00 90.45	6
MOTA	18238	CD1		G1199	86.376	85.252	53.986	1.00 91.36	6
MOTA	18239	CE1	TYR	G1199	87.127	86.001	53.074	1.00 92.40	6
MOTA	18240	CD2		G1199	84.496	86.679	53.615	1.00 90.54	6
MOTA	18241	CE2		G1199	85.232	87.433	52.703	1.00 91.49	6
MOTA	18242	CZ		G1199	86.549	87.094	52.437	1.00 92.07	6
MOTA	18243	OH		G1199	87.279	87.864	51.551	1.00 91.83	8
MOTA MOTA	18244 18245	C 0		G1199 G1199	82.094 80.979	84.658 84.493	56.574	1.00108.81 1.00108.02	6
ATOM	18245	N		G1200	82.474	84.061	56.096 57.693	1.00108.02	8 7
ATOM	18247	CA		G1200	81.537	83.193	58.375	1.00208.87	6
111 011	T (D T)	UL 2	~~·	J.200	51.557	55.155	55.575	1.00200.07	0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	18248 18249 18250 18251 18252 18253 18254 18255 18256 18257 18260 18261 18262 18263 18264 18265 18266 18267 18270 18271 18272 18273 18276 18277 18278	CONCACONCACONCACONCACONCACONCACONCACONC	GLY G1200 GLY G1200 ALA G1201 ALA G1201 ALA G1201 ALA G1201 ALA G1201 CYS G1202 CYS G1204 LYS G1204 CYS G1204 CYS G1205 CYS G1205 CYS G1205 CYS G1205	80.714 81.183 79.498 78.619 77.201 78.688 79.069 78.297 78.241 77.439 76.628 77.556 76.720 77.449 76.370 77.095 75.249 74.713 75.282 74.639 74.859 74.859 74.859 74.990 74.984 75.077 76.322 77.842	83.986 84.251 84.377 85.137 85.064 84.602 83.456 85.408 84.907 85.978 85.327 83.760 83.129 82.003 80.720 82.117 81.614 82.781 82.065 80.688 79.950 78.748 78.143 84.494 84.770 85.410 86.841 87.476 87.350	59.374 60.476 59.000 59.898 59.414 61.319 61.542 63.648 64.679 66.366 63.853 62.984 65.154 66.885 67.151 68.488 69.526 70.776 70.918 72.282 68.644 68.644	1.00208.87 1.00208.87 1.00 97.50 1.00 96.17 1.00140.38 1.00 95.15 1.00 66.28 1.00 65.50 1.00208.87 1.00208.87 1.00208.87 1.00120.96 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00123.45 1.00124.39 1.00 51.38 1.00136.46 1.00136.68 1.00136.68 1.00136.14 1.00134.86 1.00134.86 1.00 43.96 1.00 66.03 1.00 66.03 1.00 68.90 1.00 68.90 1.00 66.16	6876668766687666667687666 1
ATOM	18281	N	TYR G1206	73.487	86.466	66.537	1.00 66.00	7
ATOM	18282	CA	TYR G1206	72.294	86.676	65.750	1.00 61.13	6
ATOM	18283	CB	TYR G1206	72.423	85.935	64.420	1.00 58.42	6
ATOM	18284	CG	TYR G1206	71.150	85.884	63.617	1.00 59.28	6
ATOM ATOM ATOM	18285 18286 18287	CD1 CE1 CD2	TYR G1206	70.737 69.538 70.334	86.966 86.930 84.766	62.853 62.155 63.658	1.00 60.28 1.00 61.02 1.00 60.32	6 6
ATOM	18288	CE2	TYR G1206	69.139	84.720	62.969	1.00 60.55	6
ATOM	18289	CZ	TYR G1206	68.745	85.801	62.222	1.00 61.51	6
ATOM	18290	OH	TYR G1206	67.547	85.761	61.553	1.00 61.96	8
ATOM	18291	C	TYR G1206	71.229	86.026	66.633	1.00 57.67	6
ATOM	18292	0	TYR G1206	70.102	85.804	66.206	1.00 58.77	8
ATOM	18293	N	GLY G1207	71.637	85.723	67.869	1.00 28.17	7
ATOM	18294	CA	GLY G1207	70.801	85.100	68.888	1.00 23.00	6
ATOM	18295	C	GLY G1207	69.319	84.936	68.629	1.00 20.12	6
ATOM	18296	0	GLY G1207	68.665	85.809	68.069	1.00 19.50	8
ATOM	18297	N	TYR G1208	68.772	83.810	69.059	1.00 16.34	7
ATOM	18298	CA	TYR G1208	67.359	83.541	68.848	1.00 13.99	6
ATOM ATOM	18299 18300	CB CG	TYR G1208 TYR G1208	66.497 65.642	84.669 84.289	69.422 70.614	1.00 27.53 1.00 25.27	6
ATOM ATOM	18301 18302	CD1 CE1	TYR G1208 TYR G1208	64.255 63.469	84.322 84.034	70.536 71.636	1.00 25.01	6
MOTA	18303	CD2	TYR G1208	66.222	83.948	71.831	1.00 25.68 1.00 24.20	6 6

MOTA	18304	CE2	? TYR	G1208	65.448	83.653	72.943	1.00 25.21	. 6
MOTA	18305	CZ	TYR	G1208	64.071			1.00 26.65	
MOTA	18306	OH		G1208	63.299			1.00 28.05	
MOTA	18307	C		G1208					
ATOM					67.054			1.00 13.87	
	18308	0		G1208	67.193	84.361		1.00 13.87	
MOTA	18309	N		G1209	66.647			1.00 43.28	
MOTA	18310	CA		G1209	66.262	81.898	65.591	1.00 42.53	6
MOTA	18311	CB	ASP	G1209	65.555	80.544	65.536	1.00 31.74	
ATOM	18312	CG	ASP	G1209	65.062	80.197		1.00 31.62	
MOTA	18313	OD1	ASP	G1209	64.384	81.039		1.00 31.04	
MOTA	18314	OD2			65.350	79.070		1.00 34.00	
ATOM	18315	C		G1209	65.290	82.977		1.00 34.00	
ATOM	18316	Ö		G1209	65.181	83.278			
ATOM	18317	N		G1210	64.572			1.00 43.52	
ATOM	18318	CA		G1210		83.533		1.00 29.19	
ATOM	18319				63.610	84.587		1.00 27.76	
		CB		G1210	64.260	85.700		1.00 16.20	
ATOM	18320	CG		G1210	63.420	86.960		1.00 15.40	
MOTA	18321	CD1		G1210	63.091	87.431		1.00 15.41	
MOTA	18322	CD2		G1210	64.173	88.022		1.00 16.19	
ATOM	18323	С		G1210	62.345	84.080	65.160	1.00 27.63	
MOTA	18324	0		G1210	61.424	84.866	64.865	1.00 26.89	8
MOTA	18325	N	SER	G1211	62.298	82.773	64.903	1.00 27.94	
MOTA	18326	CA	SER	G1211	61.137	82.176	64.250	1.00 27.58	
MOTA	18327	CB		G1211	61.464	81.704	62.842	1.00 24.99	
MOTA	18328	OG		G1211	61.427	80.288	62.798	1.00 21.95	
ATOM	18329	Ċ		G1211	60.660	80.987	65.050	1.00 21.93	6
ATOM	18330	Õ		G1211	59.543	80.511	64.865	1.00 28.33	0
ATOM	18331	N		G1211	61.520	80.489	65.924		8
ATOM	18332	CA		G1212	61.145			1.00 57.72	
MOTA	18333	CB		G1212		79.369	66.761	1.00 60.29	6
MOTA	18334	CG		G1212	62.089	78.182	66.538	1.00 49.27	6
MOTA	18335	SD			62.027	77.593	65.122	1.00 50.21	6
				G1212	62.856	75.990	64.939	1.00 51.78	16
ATOM	18336	CE		G1212	64.604	76.502	64.872	1.00 49.70	6
ATOM	18337	C		G1212	61.193	79.849	68.203	1.00 62.10	6
ATOM	18338	0	MET		61.004	79.070	69.141	1.00 63.42	8
ATOM	18339	N		G1213	61.432	81.151	68.359	1.00 42.54	7
ATOM	18340	CA		G1213	61.502	81.775	69.671	1.00 42.28	6
ATOM	18341	СВ		G1213	60.118	81.860	70.271	1.00 13.87	6
ATOM	18342	С	ALA	G1213	62.409	80.934	70.547	1.00 43.53	6
ATOM	18343	0	ALA	G1213	62.038	80.502	71.633	1.00 44.76	8
MOTA	18344	\mathbf{N}	ARG	G1214	63.612	80.705	70.053	1.00 30.09	7
ATOM	18345	CA	ARG	G1214	64.593	79.896	70.748	1.00 31.85	6
MOTA	18346	CB		G1214	64.325	78.418	70.423	1.00 71.16	6
ATOM	18347	CG		G1214	65.482	77.606	69.845	1.00 75.73	6
ATOM	18348	CD		G1214	65.620	76.294	70.624	1.00 79.41	6
MOTA	18349	NE		G1214	66.783	75.489	70.253	1.00 79.98	7
MOTA	18350	CZ		G1214	67.300	74.523	70.233	1.00 79.98	
ATOM	18351	NH1		G1214	66.769	74.230	72.201		6
MOTA	18352	NH2		G1214	68.349			1.00 79.65	7
ATOM	18352	C		G1214		73.839	70.581	1.00 80.23	7
ATOM	18354	0			65.923	80.379	70.193	1.00 32.25	6
ATOM	18355			G1214	65.961	81.314	69.407	1.00 31.85	8
		N		G1215	67.035	79.800	70.626	1.00 33.76	7
MOTA	18356	CD		G1215	67.392	79.152	71.893	1.00 30.02	6
MOTA	18357	CA		G1215	68.215	80.369	69.990	1.00 35.06	6
ATOM	18358	CB		G1215	69.311	80.123	71.027	1.00 31.38	6
MOTA	18359	CG	PRO	G1215	68.858	78.901	71.706	1.00 31.25	6

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ATOM	18360	С		G1215	68.529	79.760	68.612		.27	6
ATOM	18361	0	PRO	G1215	68.301	78.575	68.362	1.00 36	.99	8
ATOM	18362	N	VAL	G1216	69.045	80.616	67.734	1.00 28	.45	7
MOTA	18363	CA	VAL	G1216	69.442	80.298	66.366	1.00 28	.73	6
ATOM	18364	СВ		G1216	70.324	81.387	65.793		.62	6
MOTA	18365	CG1		G1216	70.832	80.978	64.427		.35	6
MOTA	18366	CG2		G1216	69.557	82.669	65.746			
									.19	6
MOTA	18367	C		G1216	70.224	79.026	66.151		.04	6
ATOM	18368	0		G1216	71.364	78.902	66.601		.31	8
ATOM	18369	\mathbf{N}		G1217	69.633	78.101	65.410	1.00 25	.13	7
MOTA	18370	CA	SER	G1217	70.310	76.859	65.118	1.00 25	.66	6
MOTA	18371	CB	SER	G1217	69.321	75.859	64.526	1.00 77	.20	6
ATOM	18372	OG	SER	G1217	69.969	74.633	64.230	1.00 80	.87	8
ATOM	18373	С		G1217	71.471	77.105	64.142		.05	6
ATOM	18374	Ō		G1217	71.430	78.025	63.318		.30	8
MOTA	18375	N		G1217	72.513	76.285	64.270		.14	7
	18376			G1218						
ATOM		CA			73.693	76.349	63.416		.95	6
ATOM	18377	CB		G1218	74.800	75.403	63.915		.29	6
ATOM	18378	CG2		G1218	75.953	75.387	62.922		.38	6
ATOM	18379	CG1		G1218	75.299	75.846	65.285		.07	6
ATOM	18380	CD1		G1218	76.138	77.067	65.225	1.00 51	.14	6
ATOM	18381	С	ILE	G1218	73.277	75.869	62.041	1.00 19	.22	6
MOTA	18382	0	$_{ m ILE}$	G1218	72.591	74.858	61.919	1.00 18	.58	8
MOTA	18383	N	GLY	G1219	73.711	76.581	61.012	1.00 39	.45	7
MOTA	18384	CA		G1219	73.351	76.199	59.667		.72	6
MOTA	18385	C		G1219	72.193	77.052	59.216		.45	6
MOTA	18386	Ö		G1219	71.640	76.851	58.138		.07	8
MOTA	18387	N		G1220	71.822	78.003	60.065		.39	7
MOTA	18388	CA		G1220	70.740	78.935	59.783			6
	18389	CB		G1220					.60	
MOTA					70.400	79.696	61.056		.18	6
ATOM	18390	CG		G1220	69.224	80.617	60.937		.48	6
MOTA	18391	CD		G1220	67.965	79.885	60.550		.57	6
ATOM	18392	OE1		G1220	67.774	78.746	61.032		.24	8
MOTA	18393	OE2		G1220	67.159	80.454	59.780		.87	8
MOTA	18394	С		G1220	71.294	79.884	58.738		.82	6
MOTA	18395	0		G1220	71.991	80.827	59.068		.65	8
MOTA	18396	N	ALA	G1221	71.008	79.628	57.473	1.00 36	.15	7
MOTA	18397	CA	ALA	G1221	71.538	80.476	56.413	1.00 36	.74	6
ATOM	18398	CB	ALA	G1221	71.163	79.885	55.054	1.00 26	.70	6
MOTA	18399	С	ALA	G1221	71.029	81.912	56.540	1.00 37	.26	6
ATOM	18400	0		G1221	70.414	82.449	55.615	1.00 37		8
ATOM	18401	N		G1222	71.306	82.540	57.681	1.00 40		7
ATOM	18402	CA		G1222	70.839	83.903	57.943	1.00 41		6
ATOM	18403	CB		G1222	71.536	84.526	59.184	1.00 39		6
ATOM	18404	CG1		G1222	71.026	85.958	59.400			6
		CG1						1.00 40		6
MOTA	18405			G1222	71.265	83.685	60.418	1.00 38		6
ATOM	18406	C		G1222	71.014	84.856	56.767		.79	6
ATOM	18407	0		G1222	70.105	85.603	56.430		.32	8
ATOM	18408	N		G1223	72.185	84.826	56.148	1.00 25		7
MOTA	18409	CA		G1223	72.436	85.708	55.036		.56	6
ATOM	18410	С		G1223	71.166	86.043	54.291		.30	6
MOTA	18411	0	GLY	G1223	70.644	87.156	54.412	1.00 28	.59	8
ATOM	18412	N	VAL	G1224	70.651	85.070	53.541		.12	7
MOTA	18413	CA		G1224	69.456	85.279	52.741		.23	6
ATOM	18414	СВ		G1224	69.266	84.201	51.700	1.00 45		6
ATOM	18415	CG1		G1224	68.407	84.743	50.590	1.00 46		6
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ATOM	18416	CG2		G1224	70.600	83.729	51.186	1.00 45.51	6
MOTA	18417	С		G1224	68.198	85.334	53.556	1.00 44.20	6
MOTA	18418	0		G1224	67.167	85.771	53.062	1.00 46.29	8
ATOM	18419	N		G1225	68.262	84.855	54.792	1.00 20.28	7
ATOM	18420	CA		G1225	67.097	84.922	55.668	1.00 17.78	6
ATOM	18421	CB		G1225	67.167	83.925	56.822	1.00 27.15	6
ATOM	18422	CG1		G1225	65.895	83.980	57.630	1.00 27.09	6
ATOM ATOM	18423	CG2		G1225	67.399	82.536	56.282	1.00 27.80	6
	18424 18425	C		G1225	67.173	86.307	56.273	1.00 17.91	6
ATOM ATOM	18426	N O		G1225 G1226	66.409	86.640	57.179	1.00 16.87	8
ATOM	18427	CA		G1226 G1226	68.121 68.361	87.099 88.458	55.762 56.227	1.00 34.77	7
ATOM	18428	CB		G1226	69.771	88.582	56.770	1.00 35.41 1.00 35.47	6 6
MOTA	18429	C		G1226	68.146	89.450	55.107	1.00 35.47	6
MOTA	18430	Ö		G1226	67.928	90.628	55.351	1.00 35.70	8
ATOM	18431	N		G1227	68.228	88.982	53.872	1.00 40.98	7
ATOM	18432	CA		G1227	67.988	89.865	52.740	1.00 42.72	6
ATOM	18433	CB		G1227	68.731	89.369	51.513	1.00 60.17	6
MOTA	18434	C		G1227	66.474	89.844	52.501	1.00 43.37	6
MOTA	18435	0		G1227	65.833	90.890	52.433	1.00 44.26	8
ATOM	18436	N	GLU	G1228	65.905	88.646	52.397	1.00 26.42	7
MOTA	18437	CA	GLU	G1228	64.484	88.498	52.189	1.00 26.29	6
MOTA	18438	CB		G1228	64.089	87.041	52.355	1.00 30.18	6
MOTA	18439	CG		G1228	64.838	86.122	51.410	1.00 35.78	6
ATOM	18440	CD		G1228	64.256	84.727	51.338	1.00 39.43	6
ATOM	18441	OE1		G1228	64.268	84.026	52.373	1.00 41.42	8
MOTA	18442	OE2		G1228	63.786	84.335	50.243	1.00 43.56	8
MOTA	18443	C		G1228	63.767	89.352	53.206	1.00 26.75	6
MOTA MOTA	18444 18445	O N		G1228 G1229	63.012	90.238	52.843	1.00 27.89	8
ATOM	18445	CA		G1229	64.018 63.379	89.100 89.860	54.486 55.558	1.00 28.76 1.00 30.26	7
ATOM	18447	CB		G1229	64.133	89.685	56.873	1.00 50.20	6 6
ATOM	18448	OG		G1229	63.868	88.427	57.453	1.00 59.97	8
ATOM	18449	Ċ		G1229	63.326	91.332	55.233	1.00 33.97	6
ATOM	18450	0		G1229	62.278	91.953	55.284	1.00 33.06	8
ATOM	18451	N	ILE	G1230	64.471	91.894	54.899	1.00 22.94	7
ATOM	18452	CA	ILE	G1230	64.537	93.301	54.584	1.00 26.92	6
ATOM	18453	CB	ILE	G1230	65.997	93.785	54.575	1.00 52.11	6
ATOM	18454	CG2		G1230	66.037	95.296	54.369	1.00 52.92	6
ATOM	18455	CG1		G1230	66.694	93.370	55.877	1.00 52.92	6
ATOM	18456	CD1		G1230	68.165	93.726	55.938	1.00 53.75	6
ATOM	18457	C		G1230	63.922	93.617	53.229	1.00 28.48	6
ATOM ATOM	18458	0		G1230	63.670	94.766	52.928	1.00 30.31	8
ATOM	18459 18460	N CA		G1231 G1231	63.664 63.128	92.610 92.884	52.411 51.089	1.00 37.73 1.00 40.38	7
MOTA	18461	C		G1231	61.656	92.643	50.830	1.00 40.38	6 6
MOTA	18462	0		G1231	61.122	93.149	49.847	1.00 43.23	8
ATOM	18463	N		G1232	61.003	91.847	51.668	1.00 47.02	7
MOTA	18464	CA		G1232	59.579	91.609	51.491	1.00 51.50	6
ATOM	18465	CB	GLU	G1232	59.086	90.475	52.396	1.00199.28	6
MOTA	18466	CG		G1232	57.595	90.190	52.263	1.00204.27	6
MOTA	18467	CD		G1232	56.882	90.144	53.602	1.00207.53	6
MOTA	18468	OE1		G1232	57.299	89.355	54.479	1.00208.87	8
ATOM	18469	OE2		G1232	55.898	90.895	53.776	1.00208.87	8
ATOM ATOM	18470	C		G1232	58.901	92.926	51.873	1.00 52.75	6
AIOM	18471	0	GTO	G1232	58.267	93.576	51.034	1.00 53.88	8

ATOM	18472	N	PRO	G1233	59.039	93.354	53.141	1.00 55.76	7
ATOM	18473	$^{\rm CD}$	PRO	G1233	59.754	92.757	54.284	1.00 99.43	6
ATOM	18474	CA		G1233	58.407	94.614	53.533	1.00 56.78	6
ATOM	18475	СВ		G1233	58.981	94.851	54.919	1.00100.11	6
MOTA	18476	CG	PRO	G1233	59.121	93.456	55.453	1.00 99.64	6
MOTA	18477	C	PRO	G1233	58.776	95.723	52.543	1.00 56.76	6
MOTA	18478	0	PRO	G1233	58.176	96.792	52.527	1.00 57.07	8
ATOM	18479	N		G1234	59.775	95.452	51.718	1.00 47.53	7
ATOM	18480	CA		G1234	60.191	96.423	50.734	1.00 50.03	6
								1.00 50.03	
MOTA	18481	C		G1234	59.154	96.573	49.641		6
ATOM	18482	0		G1234	59.370	97.283	48.657	1.00 51.04	8
MOTA	18483	N	THR	G1235	58.023	95.900	49.798	1.00102.30	7
MOTA	18484	CA	THR	G1235	56.971	95.994	48.803	1.00104.55	6
MOTA	18485	CB	THR	G1235	56.427	94.601	48.455	1.00 95.64	6
ATOM	18486	OG1		G1235	57.521	93.750	48.089	1.00 96.80	8
	18487	CG2		G1235	55.460	94.682	47.284	1.00 96.40	6
MOTA									
MOTA	18488	С		G1235	55.874	96.880	49.377	1.00104.60	6
ATOM	18489	0		G1235	54.697	96.746	49.049	1.00105.19	8
MOTA	18490	N	GLN	G1236	56.291	97.795	50.243	1.00131.07	7
MOTA	18491	CA	GLN	G1236	55.382	98.727	50.884	1.00131.35	6
ATOM	18492	СВ		G1236	54.976	98.221	52.262	1.00101.39	6
ATOM	18493	CG		G1236	54.507	96.791	52.313	1.00100.77	6
							53.716	1.00100.77	6
MOTA	18494	CD		G1236	54.127	96.403			
MOTA	18495	OE1		G1236	54.941	96.481	54.634	1.00 98.99	8
ATOM	18496	NE2		G1236	52.880	95.995	53.899	1.00101.11	7
MOTA	18497	C	GLN	G1236	56.103	100.050	51.050	1.00131.57	6
MOTA	18498	0	GLN	G1236	56.101	100.631	52.135	1.00131.80	8
ATOM	18499	N		G1237	56.730	100.521	49.979	1.00 68.64	7
ATOM	18500	CA		G1237	57.460	101.782	50.028	1.00 68.64	6
ATOM	18501	CB		G1237	58.947	101.514	50.216	1.00 28.36	6
					59.410	100.514		1.00 23.30	6
ATOM	18502	CG		G1237			51.267		
MOTA	18503	CD1		G1237	60.925	100.605	51.322	1.00 26.70	6
ATOM	18504	CD2		G1237	58.805	100.801	52.635	1.00 25.91	6
ATOM	18505	C	LEU	G1237	57.284	102.625	48.772	1.00 70.01	6
MOTA	18506	0	LEU	G1237	57.446	102.132	47.656	1.00 70.65	8
MOTA	18507	N		G1238	56.968	103.901	48.956	1.00 95.54	7
ATOM	18508	CA		G1238	56.800	104.809	47.827	1.00 97.27	6
ATOM	18509	CB		G1238	56.745	106.267	48.306	1.00120.99	6
					55.718	106.402	49.298	1.00120.97	8
ATOM	18510	OG1		G1238					
MOTA	18511	CG2		G1238	56.456	107.201	47.137	1.00121.01	6
ATOM	18512	C		G1238	57.988	104.634	46.876	1.00 98.11	6
MOTA	18513	0	THR	G1238	59.052	104.171	47.289	1.00 98.67	8
ATOM	18514	N	MET	G1239	57.815	105.002	45.611	1.00 90.25	7
MOTA	18515	CA	MET	G1239	58.894	104.838	44.644	1.00 91.46	6
ATOM	18516	CB	MET	G1239	58.542	103.713	43.669	1.00 80.46	6
MOTA	18517	CG		G1239	59.572	103.454	42.572	1.00 80.17	6
					61.150	103.434	43.144	1.00 79.14	16
MOTA	18518	SD		G1239					
ATOM	18519	CE		G1239	62.270	104.163	42.830	1.00 79.80	6
MOTA	18520	С		G1239	59.209	106.105	43.867	1.00 92.59	6
ATOM	18521	0		G1239	60.097		43.010	1.00 92.57	8
ATOM	18522	N	ALA	G1240	58.492	107.181	44.172	1.00165.07	7
ATOM	18523	CA	ALA	G1240	58.703	108.443	43.476	1.00166.48	6
ATOM	18524	СВ		G1240	57.382	108.952	42.921	1.00169.27	6
ATOM	18525	C		G1240	59.344		44.335	1.00166.70	6
ATOM	18526	Ö		G1240	59.209	109.528	45.559	1.00166.35	8
									7
MOTA	18527	N	АЦА	G1241	60.045	110.437	43.677	1.00131.55	,

ATOM ATOM ATOM	18528 18529 18530	CA CB C	ALA ALA	G1241 G1241 G1241	60.687 62.043 59.760	111.836 112.741	44.370 43.743 44.232	1.00132.39 1.00177.09 1.00133.05	6 6 6
ATOM ATOM	18531 18532	O TXO		G1241 G1241	58.839 59.963	112.671 113.732	43.385 44.966	1.00133.52 1.00178.77	8
ATOM	18533	C		M1250	63.645	118.570	53.899	1.00178.77	8 6
ATOM	18534	0		M1250	64.510	119.354	53.505	1.00135.32	8
MOTA	18535	N		M1250	61.507	119.633	54.623	1.00135.29	7
ATOM	18536	CA		M1250	62.745	118.934	55.062	1.00135.34	6
ATOM	18537	N		M1251	63.438	117.379	53.347	1.00165.37	7
ATOM ATOM	18538 18539	CA CB		M1251	64.232	116.894	52.223	1.00164.97	6
ATOM	18540	OG1		M1251 M1251	65.724 66.439	116.718 117.928	52.622	1.00135.22	6
ATOM	18541	CG2		M1251	66.370	117.926	52.342 51.862	1.00136.14 1.00134.02	8 6
ATOM	18542	C		M1251	63.703	115.564	51.710	1.00134.02	6
ATOM	18543	0		M1251	63.640	114.588	52.457	1.00165.00	8
ATOM	18544	N		M1252	63.320	115.534	50.434	1.00140.34	7
ATOM	18545	CA	ASP		62.817	114.310	49.816	1.00138.24	6
ATOM	18546	CB		M1252	62.416	114.544	48.352	1.00 81.45	6
ATOM ATOM	18547 18548	CG OD1		M1252	61.132	115.342	48.206	1.00 79.98	6
ATOM	18548	OD1		M1252 M1252	60.111 61.143	114.970	48.821	1.00 78.97	8
MOTA	18550	C		M1252	63.915	116.337 113.255	47.454 49.861	1.00 78.82 1.00137.69	8 6
MOTA	18551	Ö	ASP		64.943	113.447	50.513	1.00137.09	8
MOTA	18552	N		M1253	63.698	112.149	49.153	1.00 78.27	7
MOTA	18553	CA	ILE	M1253	64.657	111.051	49.116	1.00 76.99	6
ATOM	18554	CB		M1253	66.058	111.538	48.705	1.00150.94	6
ATOM	18555	CG2		M1253	67.068	110.455	48.972	1.00150.19	6
${\tt ATOM}$	18556	CG1		M1253	66.060	111.943	47.227	1.00151.66	6
ATOM	18557 18558	CD1 C		M1253 M1253	67.401 64.723	112.440 110.448	46.716	1.00152.48	6
ATOM	18559	Ö		M1253	64.930	109.247	50.506 50.677	1.00 75.67 1.00 75.98	6 8
ATOM	18560	N		M1254	64.548	111.311	51.497	1.00 73.30	7
MOTA	18561	CA		M1254	64.542	110.910	52.890	1.00 92.70	6
MOTA	18562	CB		M1254	64.702	112.154	53.831	1.00 85.16	6
MOTA	18563	OG1		M1254	65.892	112.880	53.489	1.00 83.56	8
ATOM	18564	CG2		M1254	64.806	111.721	55.279	1.00 85.77	6
ATOM ATOM	18565 18566	C O		M1254 M1254	63.160	110.266	53.063	1.00 91.19	6
ATOM	18567	N		M1254	62.555 62.675	110.320 109.656	54.133 51.982	1.00 91.52 1.00 65.57	8 7
ATOM	18568	CA	_	M1255		109.030	51.969	1.00 63.57	6
ATOM	18569	СВ		M1255		109.979	51.442	1.00146.40	6
ATOM	18570	CG		M1255		111.181	52.319	1.00148.22	6
ATOM	18571	CD		M1255		112.101	51.712	1.00149.95	6
ATOM	18572	OE1		M1255		111.668	51.360	1.00150.11	8
MOTA MOTA	18573 18574	NE2		M1255 M1255		113.377	51.587	1.00152.05	7
ATOM	18575	C O		M1255	61.304 61.989	107.737 107.595	51.129	1.00 59.98	6
ATOM	18576	N		M1256		107.393	50.113 51.578	1.00 60.25 1.00 87.11	8 7
ATOM	18577	CA		M1256		105.561	50.883	1.00 87.11	6
ATOM	18578	C		M1256	61.389		50.505	1.00 77.98	6
MOTA	18579	0		M1256	62.517	104.871	50.948	1.00 77.97	8
ATOM	18580	N		M1257		103.693	49.667	1.00 63.28	7
ATOM	18581	CA		M1257		102.727	49.195	1.00 59.66	6
MOTA MOTA	18582 18583	CB CG		M1257 M1257		101.738	48.230	1.00 66.92	6
TIOM	10707	CG	пΕО	MTZ2/	04.2/5	100.661	47.595	1.00 67.71	6

ATOM	18584	CD1	LEU	M1257	63.040	99.906	48.667	1.00	69 39	6
MOTA	18585	CD2		M1257	61.412		46.793	1.00		6
ATOM	18586	C		M1257	63.282		48.528	1.00		6
ATOM	18587	ŏ		M1257	64.404		48.697	1.00		8
MOTA	18588	Ŋ		M1258	63.089		47.762		19.94	7
ATOM	18589	CD		M1258	61.880		47.348		15.83	6
MOTA	18590	CA		M1258	64.274		47.135		17.31	6
ATOM	18591	CB		M1258	63.720		46.448		14.49	6
ATOM	18592	CG		M1258	62.347		46.081		14.23	6
ATOM	18593	C		M1258	65.343		48.174		15.47	6
ATOM	18594	Ö		M1258	66.536		47.871		14.86	8
ATOM	18595	N		M1259	64.915		49.402		38.68	7
ATOM	18596	CA		M1259	65.865		50.462		38.22	6
ATOM	18597	CB		M1259	65.207		51.628		57.23	6
ATOM	18598	CG		M1259	66.203		52.745		58.34	6
ATOM	18599	CD		M1259	65.911		53.623		57.68	6
ATOM	18600	NE		M1259	67.073		54.445		58.11	7
ATOM	18601	CZ		M1259	68.235		53.952		58.58	6
ATOM	18602	NH1		M1259	68.405		52.643		58.25	7
ATOM	18603	NH2		M1259	69.233		54.768		58.51	7
ATOM	18604	C		M1259	66.475		50.968	1.00		6
ATOM	18605	Ö		M1259	67.696		51.009	1.00		8
ATOM	18606	N		M1260	65.620		51.353	1.00 3		7
ATOM	18607	CA		M1260	66.092		51.831	1.00		6
ATOM	18608	CB		M1260	64.979		51.885		23.47	6
ATOM	18609	CG1		M1260	65.369		52.871	1.00 2		6
ATOM	18610	CG2		M1260	63.652		52.240	1.00 2		6
ATOM	18611	C		M1260	67.158		50.868	1.00 3		6
MOTA	18612	0		M1260	68.000		51.246	1.00		8
ATOM	18613	N		M1261	67.101		49.614	1.00 4		7
ATOM	18614	CA		M1261	68.094		48.627	1.00 4		6
ATOM	18615	CB		M1261	67.543		47.170		27.14	6
ATOM	18616	CG2		M1261	68.630		46.208	1.00 2		6
ATOM	18617	CG1		M1261	67.006		46.689	1.00 2		6
ATOM	18618	CD1		M1261	68.076		46.488		31.25	6
ATOM	18619	C		M1261	69.302		48.813		43.58	6
ATOM	18620	Õ		M1261	70.411		49.095		43.96	8
ATOM	18621	Ň		M1262	69.064		48.669	1.00 3		7
ATOM	18622	CA		M1262	70.100		48.796	1.00 3		6
ATOM	18623	СВ		M1262	69.445		48.929	1.00 2		6
ATOM	18624	CG		M1262			49.294			6
ATOM	18625	CD		M1262		109.048	49.269	1.00 2		6
ATOM	18626	OE1		M1262	69.557		48.165	1.00 2		8
ATOM	18627	OE2		M1262	69.328		50.345	1.00 2		8
ATOM	18628	C		M1262	71.044		49.961	1.00 3		6
ATOM	18629	Ō		M1262	72.245		49.862	1.00 3		8
ATOM	18630	N		M1263		104.334	51.053	1.00 3		7
ATOM	18631	CA		M1263	71.300		52.250	1.00 3		6
ATOM	18632	CB		M1263	70.418		53.503	1.00 3		6
ATOM	18633	CG		M1263	70.050		54.235	1.00 3		6
ATOM	18634	CD1		M1263	69.261		53.304	1.00 3		6
ATOM	18635	CD2		M1263	69.249		55.490	1.00 3		6
MOTA	18636	С		M1263	72.098		52.071	1.00 3		6
MOTA	18637	0		M1263	73.320		52.141	1.00 3		8
MOTA	18638	N		M1264		101.647	51.855	1.00 3		7
MOTA	18639	CA	PHE	M1264		100.387	51.639	1.00 3		6

ATOM 18640 CB PHE M1264 71,101 99,370 51.078 1.00 33.57 6 ATOM 18641 CG PHE M1264 70.324 98.647 52.123 1.00 31.56 6 ATOM 18643 CD2 PHE M1264 70.865 98.429 53.379 1.00 31.56 6 ATOM 18644 CEI PHE M1264 70.865 98.429 53.379 1.00 31.56 6 ATOM 18645 CE2 PHE M1264 70.167 97.721 54.336 1.00 31.35 6 ATOM 18646 CZ PHE M1264 70.167 97.721 54.336 1.00 31.35 6 ATOM 18648 O PHE M1264 70.167 97.721 54.336 1.00 31.35 6 ATOM 18648 O PHE M1264 73.218 100.610 50.643 1.00 41.11 6 ATOM 18648 O PHE M1264 73.218 100.610 50.643 1.00 41.11 6 ATOM 18649 N GLU M1265 73.947 101.834 48.667 1.00 56.57 7 ATOM 18650 CA GLU M1265 73.947 101.834 48.667 1.00 56.57 7 ATOM 18651 CB GLU M1265 73.947 101.834 48.667 1.00 56.57 7 ATOM 18653 CD GLU M1265 73.947 101.854 64.157 1.00 61.97 6 ATOM 18654 OEL GLU M1265 73.947 101.854 64.157 1.00 61.97 6 ATOM 18655 OEZ GLU M1265 73.15 99.789 45.394 1.00 64.22 8 ATOM 18656 C GLU M1265 74.975 102.911 49.021 1.00 58.20 6 ATOM 18658 N ALA M1266 74.563 103.928 49.770 1.00 34.49 6 ATOM 18658 N ALA M1266 74.563 103.928 49.770 1.00 34.07 7 ATOM 18658 N ALA M1266 75.814 105.935 49.031 1.00 34.29 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.66 6 ATOM 18661 C ALA M1266 75.814 105.935 49.031 1.00 34.09 7 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.09 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.09 7 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.09 7 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.06 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34	3 000	10640	~D	D	251064	E4 40	_	00 050	-4 0 - 0			_
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ATOM 18645 CE2 PHE M1264	ATOM	18643	CD2	PHE	M1264	70.86	5	98.429	53.379	1.00	31.81	6
ATOM 18645 CE2 PHE M1264	ATOM	18644	CE1	PHE	M1264	68.35	6	97.437	52.783	1.00	31.35	
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ATOM 18655 CE GLU M1265 75.026 99.786 46.507 1.00 64.82 8 ATOM 18657 O GLU M1265 76.126 102.828 48.601 1.00 59.28 8 ATOM 18658 N ALA M1266 76.126 102.828 48.601 1.00 59.28 8 ATOM 18658 N ALA M1266 76.563 103.928 49.770 1.00 34.07 7 ATOM 18660 CB ALA M1266 75.477 104.997 50.174 1.00 34.07 7 ATOM 18661 C ALA M1266 76.760 104.403 50.737 1.00 15.71 6 ATOM 18662 O ALA M1266 76.415 105.517 48.046 1.00 33.92 8 ATOM 18663 N ARG M1267 75.436 107.205 49.183 1.00 20.97 7 ATOM 18664 CA ARG M1267 75.675 108.251 48.176 1.00 32.91 6 ATOM 18665 CB ARG M1267 75.675 108.251 48.176 1.00 22.91 6 ATOM 18666 CG ARG M1267 75.058 106.924 46.081 1.00 85.87 6 ATOM 18668 NE ARG M1267 73.828 106.517 45.311 1.00 88.20 6 ATOM 18669 CZ ARG M1267 73.828 106.517 44.571 1.00 90.48 7 ATOM 18667 NH1 ARG M1267 73.828 104.772 44.471 1.00 90.48 7 ATOM 18670 NH1 ARG M1267 75.455 109.644 48.757 1.00 90.48 7 ATOM 18671 NH2 ARG M1267 75.058 104.772 44.471 1.00 92.06 7 ATOM 18673 NARG M1267 75.058 104.772 44.471 1.00 92.06 7 ATOM 18674 N ARG M1267 75.058 104.772 44.471 1.00 92.06 7 ATOM 18675 CA ARG M1267 75.058 104.772 44.471 1.00 92.06 7 ATOM 18677 CG ARG M1267 75.058 104.471 44.189 1.00 91.44 6 ATOM 18679 NEAR M1268 75.752 110.634 47.914 1.00 92.25 7 ATOM 18677 CG ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18678 CD ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18679 CD ARG M1268 76.660 112.843 47.515 1.00 40.41 6 ATOM 18679 CD ARG M1268 76.660 112.843 47.515 1.00 40.41 6 ATOM 18680 CZ ARG M1268 76.660 112.843 47.515 1.00 40.41 6 ATOM 18680 CZ ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18681 NH1 ARG M1268 77.808 116.115 49.132 1.00 85.06 7 ATOM 18682 NH2 ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18684 O ARG M1268 77.818 115.137 49.814 1.00 37.10 7 ATOM 18680 CZ ARG M1268 77.113 111.631 49.855 1.00 43.93 8 ATOM 18680 C PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18680 C PRO M1269 71.133 111.631 49.866 1.00 0.065 6 ATOM 18689 C PRO M1269 71.133 111.631 49.866 1.00 0.065 6 ATOM 18693 C A LYS M1270 69.947 113.900 48.355 1.00	ATOM	18654	OE1	${ t GLU}$	M1265	73.11	5	99.789	45.394	1.00	64.22	8
ATOM 18656 C GLU M1265 74.975 102.911 49.021 1.00 58.20 6 ATOM 18658 N ALA M1266 76.126 102.828 48.601 1.00 59.28 8 ATOM 18658 N ALA M1266 74.563 103.928 49.770 1.00 34.07 7 ATOM 18659 CA ALA M1266 75.477 104.997 50.174 1.00 34.49 6 ATOM 18660 CB ALA M1266 75.814 105.935 49.031 1.00 34.49 6 ATOM 18661 C ALA M1266 75.814 105.935 49.031 1.00 34.66 6 ATOM 18662 O ALA M1266 75.814 105.935 49.031 1.00 34.66 6 ATOM 18663 N ARG M1267 75.436 107.205 49.183 1.00 20.97 7 ATOM 18664 CA ARG M1267 75.675 108.251 48.176 1.00 20.97 7 ATOM 18665 CB ARG M1267 74.741 108.084 46.081 1.00 85.87 6 ATOM 18666 C ARG M1267 73.828 106.517 45.311 1.00 88.20 6 ATOM 18666 C ARG M1267 73.828 106.517 45.311 1.00 88.20 6 ATOM 18667 CD ARG M1267 73.069 104.471 44.189 1.00 91.44 6 ATOM 18669 CZ ARG M1267 73.069 104.471 44.189 1.00 91.44 6 ATOM 18670 NH1 ARG M1267 73.357 103.361 43.525 1.00 90.225 7 ATOM 18671 NH2 ARG M1267 75.455 109.644 48.735 1.00 92.25 6 ATOM 18673 N ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18678 C ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18678 C ARG M1268 76.606 112.843 47.914 1.00 92.25 6 ATOM 18678 C ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18678 C ARG M1268 76.606 112.843 47.914 1.00 92.36 6 ATOM 18678 C ARG M1268 76.606 112.843 47.914 1.00 92.36 6 ATOM 18678 C ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18680 C ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18680 C ARG M1268 73.394 111.513 49.991 1.00 43.93 8 ATOM 18681 NH1 ARG M1268 73.392 115.970 50.852 1.00 87.35 7 ATOM 18682 NH2 ARG M1268 73.392 115.970 50.852 1.00 44.62 7 ATOM 18688 C PRO M1269 73.332 115.970 50.852 1.00 43.93 8 ATOM 18689 C PRO M1269 73.332 115.970 50.852 1.00 43.93 8 ATOM 18680 C PRO M1269 73.152 112.019 48.617 1.00 61.56 7 ATOM 18682 NH2 ARG M1268 73.394 111.513 49.991 1.00 19.49 6 ATOM 18680 C PRO M1269 73.394 111.513 49.991 1.00 61.86 6 ATOM 18680 C PRO M1269 73.394 111.513 49.991 1.00 62.20 6 ATOM 18680 C PRO M1269 73.152 112.019 48.657 1.00 62.20 6 ATOM 18693 C ALYS M1270 69.947 113.990 48.355 1.00 64.12	ATOM	18655	OE2	GLU	M1265	75.02	6	99.786	46.507	1.00	64.82	
ATOM 18657 O GLU M1265 76.126 102.828 48.601 1.00 59.28 8 ATOM 18658 N ALA M1266 74.563 103.928 49.770 1.00 34.07 7 ATOM 18660 CB ALA M1266 75.477 104.997 50.174 1.00 34.407 7 ATOM 18661 C ALA M1266 76.760 104.403 50.737 1.00 15.71 6 ATOM 18662 O ALA M1266 76.760 104.403 50.737 1.00 34.66 6 ATOM 18663 N ARG M1267 75.814 105.517 48.046 1.00 33.92 8 ATOM 18663 N ARG M1267 75.436 107.205 49.183 1.00 20.97 7 ATOM 18664 CA ARG M1267 75.675 108.251 48.176 1.00 22.91 6 ATOM 18665 CB ARG M1267 75.675 108.251 48.106 1.00 33.92 8 ATOM 18666 CG ARG M1267 77.4741 108.084 46.977 1.00 82.15 6 ATOM 18666 CG ARG M1267 75.058 106.924 46.081 1.00 85.87 6 ATOM 18668 NE ARG M1267 73.828 106.517 45.311 1.00 88.20 6 ATOM 18669 CZ ARG M1267 73.069 104.471 44.189 1.00 90.48 7 ATOM 18669 NH1 ARG M1267 71.808 104.471 44.189 1.00 91.44 6 ATOM 18670 NH1 ARG M1267 73.357 103.361 43.555 1.00 92.25 7 ATOM 18671 NH2 ARG M1267 75.455 109.644 48.735 1.00 22.51 6 ATOM 18673 O ARG M1267 75.455 109.644 48.735 1.00 22.51 6 ATOM 18674 N ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18675 CA ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18676 CB ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18678 CD ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18679 CR ARG M1268 76.606 112.843 47.914 1.00 37.10 7 ATOM 18678 CD ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18679 NE ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18680 CZ ARG M1268 77.613 114.667 49.010 1.00 85.75 7 ATOM 18681 NH1 ARG M1268 77.613 115.970 50.852 1.00 87.35 7 ATOM 18682 NP ARG M1268 77.613 119.248 47.878 1.00 41.76 6 ATOM 18689 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18688 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18688 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18689 CD PRO M1269 71.133 111.631 49.683 1.00 61.86 6 ATOM 18689 CD PRO M1269 71.133 111.631 49.683 1.00 61.86 6 ATOM 18699 C PRO M1269 71.133 111.643 48.355 1.00 62.20 6 ATOM 18699 C PRO M1269 72.81 111.1953 50.678 1.00 63.81 6 ATOM 18694 CB LYS M1270 69.947 113.900 48.35	ATOM	18656	С	GLU	M1265	74.97	5	102.911				
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ATOM 18669 CZ ARG M1267 73.069 104.471 44.189 1.00 91.44 6 ATOM 18670 NH1 ARG M1267 71.808 104.772 44.471 1.00 92.06 7 ATOM 18671 NH2 ARG M1267 73.357 103.361 43.525 1.00 92.25 7 ATOM 18672 C ARG M1267 75.455 109.644 48.735 1.00 22.51 6 ATOM 18673 O ARG M1267 75.015 109.811 49.855 1.00 20.90 8 ATOM 18674 N ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18675 CA ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18676 CB ARG M1268 76.660 112.843 47.515 1.00 77.67 6 ATOM 18677 CG ARG M1268 76.702 114.329 47.824 1.00 79.69 6 ATOM 18678 CD ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18678 CD ARG M1268 77.808 116.115 49.132 1.00 85.06 7 ATOM 18680 CZ ARG M1268 78.622 116.701 50.005 1.00 85.75 6 ATOM 18681 NH1 ARG M1268 79.332 115.970 50.852 1.00 87.35 7 ATOM 18682 NH2 ARG M1268 78.733 118.022 50.021 1.00 84.62 7 ATOM 18684 O ARG M1268 73.990 113.251 46.939 1.00 43.93 8 ATOM 18685 N PRO M1269 73.152 112.019 48.617 1.00 61.56 7 ATOM 18686 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18688 CB PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18689 CG PRO M1269 71.133 111.631 49.686 1.00 20.65 6 ATOM 18690 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18691 O PRO M1269 72.167 111.953 50.678 1.00 63.87 8 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18693 CA LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18694 CB LYS M1270 69.947 113.900 48.355 1.00 63.81 6 ATOM 18694 CB LYS M1270 69.947 113.900 48.355 1.00 63.81 6	ATOM	18667	$^{\mathrm{CD}}$	ARG	M1267	73.82	8	106.517	45.311	1.00	88.20	6
ATOM 18670 NH1 ARG M1267 71.808 104.772 44.471 1.00 92.06 7 ATOM 18671 NH2 ARG M1267 73.357 103.361 43.525 1.00 92.25 7 ATOM 18672 C ARG M1267 75.455 109.644 48.735 1.00 22.51 6 ATOM 18673 O ARG M1267 75.015 109.811 49.855 1.00 20.90 8 ATOM 18674 N ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18675 CA ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18676 CB ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18676 CB ARG M1268 76.660 112.843 47.515 1.00 77.67 6 ATOM 18677 CG ARG M1268 76.702 114.329 47.824 1.00 79.69 6 ATOM 18678 CD ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18679 NE ARG M1268 77.808 116.115 49.132 1.00 85.06 7 ATOM 18680 CZ ARG M1268 78.622 116.701 50.005 1.00 85.75 6 ATOM 18681 NH1 ARG M1268 79.332 115.970 50.852 1.00 87.35 7 ATOM 18682 NH2 ARG M1268 78.733 118.022 50.021 1.00 84.62 7 ATOM 18683 C ARG M1268 74.174 112.480 47.878 1.00 41.76 6 ATOM 18685 N PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18686 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18688 CB PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18689 CG PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18691 O PRO M1269 72.167 113.722 48.374 1.00 62.20 6 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18693 CA LYS M1270 69.947 113.900 48.355 1.00 63.81 6 ATOM 18694 CB LYS M1270 67.819 115.139 48.375 1.00 92.45 6	ATOM	18668	NE	ARG	M1267	74.04	5	105.280	44.577	1.00	90.48	7
ATOM 18670 NH1 ARG M1267 71.808 104.772 44.471 1.00 92.06 7 ATOM 18671 NH2 ARG M1267 73.357 103.361 43.525 1.00 92.25 7 ATOM 18672 C ARG M1267 75.455 109.644 48.735 1.00 22.51 6 ATOM 18673 O ARG M1267 75.015 109.811 49.855 1.00 20.90 8 ATOM 18674 N ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18675 CA ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18676 CB ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18676 CB ARG M1268 76.660 112.843 47.515 1.00 77.67 6 ATOM 18677 CG ARG M1268 76.702 114.329 47.824 1.00 79.69 6 ATOM 18678 CD ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18679 NE ARG M1268 77.808 116.115 49.132 1.00 85.06 7 ATOM 18680 CZ ARG M1268 78.622 116.701 50.005 1.00 85.75 6 ATOM 18681 NH1 ARG M1268 79.332 115.970 50.852 1.00 87.35 7 ATOM 18682 NH2 ARG M1268 78.733 118.022 50.021 1.00 84.62 7 ATOM 18683 C ARG M1268 74.174 112.480 47.878 1.00 41.76 6 ATOM 18685 N PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18686 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18688 CB PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18689 CG PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18691 O PRO M1269 72.167 113.722 48.374 1.00 62.20 6 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18693 CA LYS M1270 69.947 113.900 48.355 1.00 63.81 6 ATOM 18694 CB LYS M1270 67.819 115.139 48.375 1.00 92.45 6	ATOM	18669	CZ	ARG	M1267	73.06	9	104.471	44.189	1.00	91.44	6
ATOM 18671 NH2 ARG M1267 73.357 103.361 43.525 1.00 92.25 7 ATOM 18672 C ARG M1267 75.455 109.644 48.735 1.00 22.51 6 ATOM 18673 O ARG M1267 75.015 109.811 49.855 1.00 20.90 8 ATOM 18674 N ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18675 CA ARG M1268 75.599 112.033 48.271 1.00 40.41 6 ATOM 18676 CB ARG M1268 76.660 112.843 47.515 1.00 77.67 6 ATOM 18677 CG ARG M1268 76.702 114.329 47.824 1.00 79.69 6 ATOM 18678 CD ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18679 NE ARG M1268 77.808 116.115 49.132 1.00 85.06 7 ATOM 18680 CZ ARG M1268 78.622 116.701 50.005 1.00 85.75 6 ATOM 18681 NH1 ARG M1268 78.622 116.701 50.005 1.00 85.75 7 ATOM 18683 C ARG M1268 78.733 118.022 50.021 1.00 84.62 7 ATOM 18684 O ARG M1268 78.733 118.022 50.021 1.00 84.62 7 ATOM 18685 N PRO M1269 73.152 112.019 48.617 1.00 41.76 6 ATOM 18686 CD PRO M1269 73.152 112.019 48.617 1.00 61.56 7 ATOM 18688 CB PRO M1269 73.152 112.019 48.617 1.00 61.56 6 ATOM 18689 CG PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18689 C PRO M1269 72.167 111.953 50.678 1.00 19.49 6 ATOM 18690 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18691 O PRO M1269 72.167 113.722 48.374 1.00 62.20 6 ATOM 18694 CB LYS M1270 69.346 115.224 48.279 1.00 63.81 6 ATOM 18693 CA LYS M1270 69.346 115.224 48.279 1.00 63.81 6 ATOM 18694 CB LYS M1270 67.819 115.139 48.375 1.00 92.45 6	ATOM	18670	NH1	ARG	M1267	71.80	8	104.772		1.00		
ATOM 18672 C ARG M1267 75.455 109.644 48.735 1.00 22.51 6 ATOM 18673 O ARG M1267 75.015 109.811 49.855 1.00 20.90 8 ATOM 18674 N ARG M1268 75.752 110.634 47.914 1.00 37.10 7 ATOM 18675 CA ARG M1268 75.559 112.033 48.271 1.00 40.41 6 ATOM 18676 CB ARG M1268 76.660 112.843 47.515 1.00 77.67 6 ATOM 18677 CG ARG M1268 76.702 114.329 47.824 1.00 79.69 6 ATOM 18678 CD ARG M1268 77.613 114.667 49.010 1.00 82.36 6 ATOM 18679 NE ARG M1268 77.808 116.115 49.132 1.00 85.06 7 ATOM 18680 CZ ARG M1268 78.622 116.701 50.005 1.00 85.75 6 ATOM 18681 NH1 ARG M1268 78.622 116.701 50.005 1.00 87.35 7 ATOM 18682 NH2 ARG M1268 78.733 118.022 50.021 1.00 84.62 7 ATOM 18683 C ARG M1268 74.174 112.480 47.878 1.00 41.76 6 ATOM 18684 O ARG M1268 73.990 113.251 46.939 1.00 43.93 8 ATOM 18685 N PRO M1269 73.152 112.019 48.617 1.00 61.56 7 ATOM 18686 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18688 CB PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18689 CG PRO M1269 71.133 111.631 49.686 1.00 20.65 6 ATOM 18689 C PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18691 O PRO M1269 72.167 113.722 48.374 1.00 62.20 6 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 63.87 8 ATOM 18693 CA LYS M1270 69.947 113.500 48.355 1.00 64.12 7 ATOM 18694 CB LYS M1270 69.346 115.224 48.375 1.00 92.45 6												
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ATOM 18685 N PRO M1269 73.152 112.019 48.617 1.00 61.56 7 ATOM 18686 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18687 CA PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18688 CB PRO M1269 71.133 111.631 49.686 1.00 20.65 6 ATOM 18689 CG PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 71.267 113.722 48.374 1.00 62.20 6 ATOM 18691 O PRO M1269 72.081 114.643 48.362 1.00 63.87 8 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18693 CA LYS M1270 69.346 115.224 48.279 1.00 63.81 6 ATOM 18694 CB LYS M1270 67.819 115.139 48.375 1.00 92.45 6	MOTA	18684	0	ARG	M1268	73.99	0	113.251	46.939	1.00	43.93	8
ATOM 18686 CD PRO M1269 73.394 111.513 49.971 1.00 19.49 6 ATOM 18687 CA PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18688 CB PRO M1269 71.133 111.631 49.686 1.00 20.65 6 ATOM 18689 CG PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 71.267 113.722 48.374 1.00 62.20 6 ATOM 18691 O PRO M1269 72.081 114.643 48.362 1.00 63.87 8 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18693 CA LYS M1270 69.346 115.224 48.279 1.00 63.81 6 ATOM 18694 CB LYS M1270 67.819 115.139 48.375 1.00 92.45 6	ATOM	18685	N	PRO	M1269	73.15	2	112.019	48.617	1.00	61.56	
ATOM 18687 CA PRO M1269 71.715 112.276 48.458 1.00 61.86 6 ATOM 18688 CB PRO M1269 71.133 111.631 49.686 1.00 20.65 6 ATOM 18689 CG PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 71.267 113.722 48.374 1.00 62.20 6 ATOM 18691 O PRO M1269 72.081 114.643 48.362 1.00 63.87 8 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18693 CA LYS M1270 69.346 115.224 48.279 1.00 63.81 6 ATOM 18694 CB LYS M1270 67.819 115.139 48.375 1.00 92.45 6	ATOM	18686	$^{\rm CD}$	PRO	M1269	73.39	4	111.513	49.971	1.00	19.49	
ATOM 18688 CB PRO M1269 71.133 111.631 49.686 1.00 20.65 6 ATOM 18689 CG PRO M1269 72.167 111.953 50.678 1.00 19.82 6 ATOM 18690 C PRO M1269 71.267 113.722 48.374 1.00 62.20 6 ATOM 18691 O PRO M1269 72.081 114.643 48.362 1.00 63.87 8 ATOM 18692 N LYS M1270 69.947 113.900 48.355 1.00 64.12 7 ATOM 18693 CA LYS M1270 69.346 115.224 48.279 1.00 63.81 6 ATOM 18694 CB LYS M1270 67.819 115.139 48.375 1.00 92.45 6	ATOM	18687	CA									
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ATOM 10073 CG LIB MIZ/U 0/.130 110.303 48.360 1.00 93.83 6												
	AIOM	TOOAD	CG	пΙЭ	MTZ/U	0/.13	U	110.503	40.360	1.00	93.83	ь

MOTA MOTA	18696 18697	CD CE	LYS	M1270 M1270	65.036	116.411 117.802	48.686 48.806	1.00	94.46	6
MOTA	18698	NZ		M1270	63.612		49.256		96.33	7
ATOM ATOM	18699 18700	C O		M1270 M1270		116.137 117.154	49.388 49.121		62.75	6
ATOM	18701	N		M1270 M1271	69.582		50.632		62.13	8 7
ATOM	18701	CA		M1271		116.572	51.770		31.35	6
ATOM	18703	CB		M1271	69.802		53.051		47.33	6
ATOM	18704	C		M1271	71.462	117.039	51.692		29.53	6
ATOM	18705	Ö		M1271	71.730		51.579		28.66	8
ATOM	18706	Ň		M1272	72.388	116.089	51.753		45.65	7
ATOM	18707	CA		M1272	73.813	116.392	51.727		45.37	6
MOTA	18708	СВ		M1272	74.160	117.172	50.470		44.00	6
MOTA	18709	С	ALA	M1272	74.136	117.210	52.986	1.00	44.52	6
MOTA	18710	0	ALA	M1272	75.193	117.831	53.094	1.00	43.90	8
MOTA	18711	N		M1273	73.203	117.178	53.934	1.00	36.55	7
ATOM	18712	CA		M1273	73.306	117.878	55.214		36.06	6
MOTA	18713	CB		M1273	72.439		56.258		37.25	6
ATOM	18714	C		M1273	74.738	117.984	55.717		35.72	6
ATOM	18715	0		M1273	75.290	116.991	56.171		36.51	8
ATOM	18716	N		M1274	75.335	119.176	55.660		36.79	7
ATOM	18717	CA		M1274	76.725	119.351	56.121		37.99	6
ATOM ATOM	18718 18719	CB CG1		M1274 M1274	77.232	120.821 120.805	56.015 55.484		53.09	6
ATOM	18720	CG1		M1274		120.605	55.484		54.50 53.07	6 6
ATOM	18721	CGZ		M1274	76.942		57.563		37.44	6
ATOM	18722	0		M1274	76.051		58.409		37.19	8
ATOM	18723	N		M1275	78.140	118.382	57.839		35.91	7
ATOM	18724	CA		M1275	78.459	117.873	59.168		38.90	6
ATOM	18725	CB		M1275	78.560	116.324	59.158		62.31	6
ATOM	18726	CG2		M1275	77.233	115.727	59.584		63.25	6
ATOM	18727	CG1	ILE	M1275	78.937	115.812	57.760		63.17	6
ATOM	18728	CD1		M1275	80.242	116.339	57.229	1.00	64.53	6
ATOM	18729	С		M1275	79.735	118.432	59.758		38.86	6
ATOM	18730	0		M1275	80.831	118.168	59.260		38.84	8
MOTA	18731	N		M1276	79.590	119.196	60.835		24.22	7
ATOM	18732	CA		M1276		119.806	61.491		26.41	6
ATOM	18733	CB		M1276		120.285	62.893		91.16	6
ATOM	18734	OG C		M1276 M1276	81.423	121.009	63.487		95.56	8
ATOM ATOM	18735 18736	C		M1276		118.827 117.718	61.568 62.080		26.43 25.83	6
ATOM	18737	O N		M1270		117.716	61.041		35.97	8 7
ATOM	18738	CA		M1277		119.245	61.041		38.59	6
MOTA	18739	CB		M1277		118.815	59.858		90.83	6
ATOM	18740	CG		M1277		119.071	58.581		93.32	6
MOTA	18741	CD		M1277		119.222	57.364		95.17	6
MOTA	18742	OE1		M1277		119.743	56.341		98.25	8
ATOM	18743	OE2		M1277	86.431		57.427		95.08	8
MOTA	18744	С	GLU	M1277	85.040	118.524	62.357	1.00	39.76	6
MOTA	18745	0	GLU	M1277	85.962	117.750	62.606		39.25	8
MOTA	18746	N		M1278		119.485	63.196	1.00		7
ATOM	18747	CA		M1278		119.669	64.492	1.00		6
ATOM	18748	CB		M1278		121.111	64.743		48.99	6
ATOM	18749	CG2		M1278	86.689	121.154	65.914		49.48	6
ATOM	18750	CG1		M1278		121.702	63.516		49.01	6
ATOM	18751	CDT	TPE	M1278	80.053	123.184	63.677	1.00	49.31	6

ATOM ATOM	18752 18753	C O		M1278 M1278	84.266 83.082	119.388 119.311	65.557	1.00 61.31 1.00 62.17	6
ATOM	18754	N		M1278	84.706	119.311	65.256 66.799		8 7
MOTA	18755	CA		M1279	83.764	119.223	67.883	1.00 95.73 1.00 96.52	6
ATOM	18756	CB		M1279	84.324	118.128	68.987	1.00 90.32	6
ATOM	18757	CG		M1279	85.803	117.870	68.844	1.00119.40	6
ATOM	18758			M1279	86.219	117.271	67.826	1.00121.23	8
ATOM	18759	OD2		M1279	86.551	118.263	69.762	1.00121.73	8
ATOM	18760	C		M1279	83.601	120.450	68.376	1.00 96.37	6
ATOM	18761	Õ		M1279	82.947	120.430	69.386	1.00 98.12	8
ATOM	18762	N		M1280	84.208	121.358	67.612	1.00 18.28	7
ATOM	18763	CA		M1280	84.189	122.785	67.902	1.00 10.20	6
ATOM	18764	C		M1280	82.995	123.529	68.520	1.00 16.53	6
ATOM	18765	Ō		M1280	82.131	122.948	69.183	1.00 15.06	8
MOTA	18766	N		M1281	82.947		68.267	1.00 35.72	7
ATOM	18767	CA		M1281	81.923	125.704	68.840	1.00 37.74	6
ATOM	18768	СВ		M1281	82.541	126.445	70.046	1.00 95.01	6
ATOM	18769	CG1	VAL	M1281	81.505	127.221	70.786	1.00 95.60	6
MOTA	18770	CG2	VAL	M1281		125.441	70.980	1.00 96.27	6
ATOM	18771	С	VAL	M1281	81.251	126.732	67.907	1.00 39.27	6
ATOM	18772	0	VAL	M1281	81.659	126.927	66.760	1.00 38.88	8
ATOM	18773	N	VAL	M1282	80.204	127.359	68.451	1.00 59.53	7
ATOM	18774	CA		M1282	79.359	128.413	67.851	1.00 61.86	6
ATOM	18775	CB	VAL	M1282	79.665	129.813	68.503	1.00151.80	6
MOTA	18776			M1282	78.438	130.725	68.403	1.00152.73	6
MOTA	18777	CG2		M1282		129.662	69.935	1.00152.82	6
MOTA	18778	С		M1282		128.682	66.345	1.00 62.54	6
MOTA	18779	0		M1282	79.164		65.520	1.00 61.75	8
MOTA	18780	N		M1283	79.435	129.987	66.070	1.00 98.63	7
MOTA	18781	CA		M1283	79.467	130.688	64.783	1.00100.02	6
MOTA	18782	CB		M1283		130.549	64.133	1.00 92.86	6
ATOM	18783	CG		M1283	81.221	131.785	63.340	1.00 91.12	6
ATOM	18784	CD		M1283		133.019	64.232	1.00 89.92	6
ATOM	18785	NE		M1283	81.475	134.230	63.447	1.00 89.26	7
ATOM ATOM	18786 18787	CZ NH1		M1283 M1283	82.586 83.605	134.500 133.648	62.772	1.00 88.80	6
ATOM	18788	NH2		M1283	82.668	135.648	62.795 62.047	1.00 89.04	7
ATOM	18789	C		M1283	78.421	130.503	63.709	1.00 88.44 1.00101.02	7 6
ATOM	18790	0		M1283	77.895	129.418	63.495	1.00101.02	8
ATOM	18791	N		M1284		131.618	63.026	1.00101.79	7
ATOM	18792	CA		M1284		131.754	61.931	1.00 43.84	6
ATOM	18793	CB		M1284		131.414	62.370	1.00 43.84	6
ATOM	18794	CG2		M1284		132.221	61.549	1.00 73.01	6
MOTA	18795	CG1		M1284		129.906	62.212	1.00 74.30	6
MOTA	18796	CD1		M1284		129.421	62.679	1.00 74.58	6
MOTA	18797	С	ILE	M1284	77.263	133.220	61.528	1.00 45.61	6
MOTA	18798	0	ILE	M1284		134.089	62.397	1.00 45.94	8
MOTA	18799	N	GLU	M1285		133.488	60.225	1.00 81.27	7
ATOM	18800	CA		M1285		134.859	59.697	1.00 84.47	6
MOTA	18801	CB		M1285		135.226	59.343	1.00145.08	6
ATOM	18802	CG		M1285		135.342	60.527	1.00148.56	6
ATOM	18803	CD		M1285		136.432	61.494	1.00150.99	6
ATOM	18804	OE1		M1285		137.577	61.042	1.00152.74	8
ATOM	18805			M1285		136.147	62.706	1.00152.74	8
ATOM	18806	C		M1285		135.036	58.452	1.00 85.61	6
MOTA	18807	0	GПО	M1285	16.945	134.566	57.372	1.00 85.94	8

ATOM 18809 CA GLU M1286 74.544 135.976 57.504 1.00114.27 6 ATOM 18811 CG GLU M1286 73.220 136.562 58.012 1.00131.82 6 ATOM 18813 CD GLU M1286 77.223 136.934 56.879 1.00133.69 6 ATOM 18813 CD GLU M1286 77.074 137.783 57.339 1.00134.22 6 ATOM 18814 OE2 GLU M1286 70.921 138.920 56.841 1.00134.82 8 ATOM 18815 C GLU M1286 75.070 136.897 56.415 1.00114.30 8 ATOM 18816 O GLU M1286 75.070 136.897 56.415 1.00114.30 8 ATOM 18817 N GLY M1287 75.199 136.347 55.219 1.00127.50 7 ATOM 18818 CA GLY M1287 75.643 137.131 54.088 1.00128.07 6 ATOM 18819 C GLY M1287 75.643 137.131 54.088 1.00128.07 6 ATOM 18820 O GLY M1287 74.478 137.104 53.123 1.00128.48 6 ATOM 18821 N ALA M1288 74.272 138.180 52.373 1.00152.12 7 ATOM 18822 CA ALA M1288 73.392 139.354 50.404 1.00134.91 6 ATOM 18822 CA ALA M1288 73.392 139.354 50.404 1.00154.91 6 ATOM 18825 O ALA M1288 73.029 136.883 50.696 1.00151.92 7 ATOM 18827 CA ASP M1289 74.196 136.240 50.443 1.00118.29 7 ATOM 18827 CA ASP M1289 74.196 136.240 50.443 1.00118.29 7 ATOM 18820 CA SAP M1289 74.196 136.240 50.443 1.00151.82 8 ATOM 18827 CA ASP M1289 74.196 136.240 50.443 1.00151.82 8 ATOM 18820 CA SAP M1289 74.196 136.240 50.443 1.00151.82 6 ATOM 18820 CA SAP M1289 74.196 136.240 50.443 1.00151.82 6 ATOM 18820 CA SAP M1289 74.196 136.240 50.443 1.00151.82 8 ATOM 18820 CA SAP M1289 74.196 136.240 50.443 1.00151.82 8 ATOM 18820 CA SAP M1289 75.243 134.046 50.241 1.00151.82 8 ATOM 18831 OD ASP M1289 75.243 134.046 50.241 1.00151.82 8 ATOM 18833 O ASP M1289 75.243 134.046 50.241 1.00151.82 8 ATOM 18833 O ASP M1289 75.243 134.046 50.241 1.00151.82 8 ATOM 18833 O ASP M1289 75.243 134.046 50.241 1.00151.83 6 ATOM 18833 O ASP M1289 75.431 134.046 50.241 1.00117.42 6 ATOM 18833 CA ARG M1290 75.416 134.078 51.601 1.00177.42 6 ATOM 18834 N ARG M1290 75.416 134.078 51.601 1.00177.42 6 ATOM 18835 CA EU M1291 77.865 133.380 55.15 1.00174.40 6 ATOM 18836 CB ARG M1290 77.861 133.385 55.15 1.00174.64 6 ATOM 18840 CD LEU M1291 77.655 133.399 56.035 1.0013.31 6 ATOM 18840 CD LEU M1291 77.650 133.385 55.15 1.00174.64	ATOM	18808	N	CLII	M1286	75 471	135.737	58.609	1.00113.24	7
ATOM 18810 CB GUU M1286 73.220 136.562 \$8.012 1.00131.82 6 ATOM 18811 CC GUU M1286 72.253 136.393 56.879 1.00133.69 6 ATOM 18813 OCI GUU M1286 71.074 137.783 57.339 1.00134.22 6 ATOM 18814 OCE GUU M1286 70.298 137.314 57.339 1.00134.22 6 ATOM 18814 OCE GUU M1286 70.298 137.314 58.194 1.00134.22 6 ATOM 18815 C GUU M1286 70.298 137.314 58.194 1.00134.22 8 ATOM 18816 O GUU M1286 75.070 136.897 56.415 1.00114.18 6 ATOM 18817 N GLY M1287 75.199 136.347 55.219 1.00127.50 7 ATOM 18818 CA GUY M1287 75.199 136.347 55.219 1.00127.50 7 ATOM 18819 C GLY M1287 75.199 136.347 55.219 1.00127.50 7 ATOM 18820 O GLY M1287 73.755 136.108 53.070 1.00128.07 6 ATOM 18820 O GLY M1287 73.755 136.108 53.070 1.00128.72 8 ATOM 18821 N ALA M1288 73.186 138.225 51.419 1.00152.14 6 ATOM 18822 CA ALA M1288 73.392 139.354 50.696 1.00151.69 6 ATOM 18823 CB ALA M1288 73.392 139.354 50.696 1.00151.69 6 ATOM 18825 O ALA M1288 73.029 136.883 50.696 1.00151.69 6 ATOM 18826 N ASP M1289 74.166 136.267 50.389 1.00103.92 7 ATOM 18827 CA ASP M1289 74.495 135.218 48.205 1.00102.41 6 ATOM 18828 CB ASP M1289 74.495 135.218 48.205 1.00102.41 6 ATOM 18829 CG ASP M1289 73.252 135.566 47.388 1.0012.42 7 ATOM 18820 CB ASP M1289 73.252 135.566 47.388 1.0012.42 7 ATOM 18828 CB ASP M1289 73.252 135.566 47.388 1.00154.29 6 ATOM 18830 ODI ASP M1289 73.252 135.566 47.388 1.000.201.41 6 ATOM 18831 ODZ ASP M1289 73.252 135.566 47.388 1.000.50.26 6 ATOM 18833 O ASP M1289 73.252 135.566 47.388 1.000.50.27 8 ATOM 18834 N ARG M1290 75.416 134.078 51.601 1.00107.42 7 ATOM 18835 CA ARG M1290 77.5416 134.078 51.601 1.00107.42 7 ATOM 18834 N ARG M1290 77.5416 134.078 51.601 1.00107.42 7 ATOM 18834 N ARG M1290 77.5416 134.078 51.601 1.00107.42 7 ATOM 18835 CA ARG M1290 77.5416 134.078 51.601 1.00107.42 7 ATOM 18836 CB ARG M1290 77.5416 134.078 51.001 1.0017.42 7 ATOM 18837 CG ARG M1290 77.5416 134.078 51.001 1.0017.42 7 ATOM 18838 CD ARG M1290 77.5416 133.864 50.726 1.00102.01 6 ATOM 18838 CD ARG M1290 77.5416 133.005 53.752 1.00017.46 6 ATOM 18850 CD LEU M1291 77.5451 131.886										
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ATOM 18844 O ARG M1290 76.438 133.852 54.577 1.00174.46 8 ATOM 18845 N LEU M1291 75.451 131.886 54.103 1.00 53.05 7 ATOM 18846 CA LEU M1291 75.147 131.627 55.515 1.00 50.77 6 ATOM 18847 CB LEU M1291 74.052 130.564 55.663 1.00153.51 6 ATOM 18848 CG LEU M1291 72.652 131.090 56.006 1.00154.05 6 ATOM 18849 CD1 LEU M1291 72.059 131.822 54.809 1.00154.44 6 ATOM 18850 CD2 LEU M1291 71.757 129.931 56.416 1.00155.06 6 ATOM 18851 C LEU M1291 76.400 131.187 56.280 1.00 49.06 6 ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 98.69 6 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 24.86 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6						76.090		53.752	1.00174.64	6
ATOM 18846 CA LEU M1291 75.147 131.627 55.515 1.00 50.77 6 ATOM 18847 CB LEU M1291 74.052 130.564 55.663 1.00153.51 6 ATOM 18848 CG LEU M1291 72.652 131.090 56.006 1.00154.05 6 ATOM 18849 CD1 LEU M1291 72.059 131.822 54.809 1.00154.44 6 ATOM 18850 CD2 LEU M1291 71.757 129.931 56.416 1.00155.06 6 ATOM 18851 C LEU M1291 76.400 131.187 56.280 1.00 49.06 6 ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18858 O SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18861 CB VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18844	0	ARG	M1290	76.438	133.852	54.577	1.00174.46	8
ATOM 18846 CA LEU M1291 75.147 131.627 55.515 1.00 50.77 6 ATOM 18847 CB LEU M1291 74.052 130.564 55.663 1.00153.51 6 ATOM 18848 CG LEU M1291 72.652 131.090 56.006 1.00154.05 6 ATOM 18849 CD1 LEU M1291 72.059 131.822 54.809 1.00154.44 6 ATOM 18850 CD2 LEU M1291 71.757 129.931 56.416 1.00155.06 6 ATOM 18851 C LEU M1291 76.400 131.187 56.280 1.00 49.06 6 ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18858 O SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18861 CB VAL M1293 77.162 126.998 61.069 1.00 23.47 6		18845	N	LEU	M1291	75.451	131.886	54.103	1.00 53.05	7
ATOM 18848 CG LEU M1291 72.652 131.090 56.006 1.00154.05 6 ATOM 18849 CD1 LEU M1291 72.059 131.822 54.809 1.00154.44 6 ATOM 18850 CD2 LEU M1291 71.757 129.931 56.416 1.00155.06 6 ATOM 18851 C LEU M1291 76.400 131.187 56.280 1.00 49.06 6 ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 98.69 6 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6		18846	CA	LEU	M1291	75.147	131.627	55.515	1.00 50.77	6
ATOM 18849 CD1 LEU M1291 72.059 131.822 54.809 1.00154.44 6 ATOM 18850 CD2 LEU M1291 71.757 129.931 56.416 1.00155.06 6 ATOM 18851 C LEU M1291 76.400 131.187 56.280 1.00 49.06 6 ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 98.69 6 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18847	СВ	LEU	M1291	74.052	130.564	55.663	1.00153.51	6
ATOM 18850 CD2 LEU M1291 71.757 129.931 56.416 1.00155.06 6 ATOM 18851 C LEU M1291 76.400 131.187 56.280 1.00 49.06 6 ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18848	CG	LEU	M1291	72.652	131.090	56.006	1.00154.05	6
ATOM 18851 C LEU M1291 76.400 131.187 56.280 1.00 49.06 6 ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18849	CD1	LEU	M1291	72.059	131.822	54.809	1.00154.44	6
ATOM 18852 O LEU M1291 76.445 131.216 57.519 1.00 48.84 8 ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18850	CD2	LEU	M1291	71.757	129.931	56.416	1.00155.06	6
ATOM 18853 N SER M1292 77.410 130.788 55.514 1.00102.48 7 ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18851	С	LEU	M1291	76.400	131.187	56.280	1.00 49.06	
ATOM 18854 CA SER M1292 78.695 130.339 56.035 1.00101.03 6 ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18852	0	LEU	M1291	76.445	131.216	57.519	1.00 48.84	
ATOM 18855 CB SER M1292 79.778 131.354 55.658 1.00138.13 6 ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	MOTA	18853	\mathbf{N}	SER	M1292	77.410				
ATOM 18856 OG SER M1292 79.417 132.655 56.087 1.00141.06 8 ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6		18854	CA							
ATOM 18857 C SER M1292 78.748 130.065 57.538 1.00 98.69 6 ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM	18855	CB							
ATOM 18858 O SER M1292 79.463 130.745 58.267 1.00 99.06 8 ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	ATOM		OG							
ATOM 18859 N VAL M1293 77.986 129.073 57.994 1.00 37.22 7 ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6	MOTA		С							
ATOM 18860 CA VAL M1293 77.973 128.683 59.405 1.00 33.89 6 ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6			0							
ATOM 18861 CB VAL M1293 77.025 127.480 59.652 1.00 24.86 6 ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6										
ATOM 18862 CG1 VAL M1293 77.162 126.998 61.069 1.00 23.47 6										
ATOM 18863 CG2 VAL M1293 75.594 127.860 59.372 1.00 24.56 6										
	MOTA	T8863	CG2	VAL	M1293	/5.594	127.860	59.372	1.00 24.56	6

ATOM	18864	С	VAL	M1293	79.386	128.222	59.763	1.00 33.09	6
ATOM	18865	0	VAL	M1293	79.828		59.260	1.00 32.16	8
ATOM	18866	N	PHE	M1294	80.099	128.972	60.605	1.00 59.03	7
ATOM	18867	CA	PHE	M1294	81.453	128.566	60.981	1.00 58.35	6
MOTA	18868	CB	$_{ m PHE}$	M1294	82.343	129.738	61.401	1.00 99.37	6
MOTA	18869	CG	PHE	M1294	82.564	130.785	60.356	1.00100.89	6
MOTA	18870	CD1	PHE	M1294	81.513	131.563	59.890	1.00101.42	6
MOTA	18871	CD2	PHE	M1294	83.851	131.071	59.917	1.00101.34	6
MOTA	18872	CE1		M1294	81.742		59.009	1.00101.34	6
ATOM	18873	CE2		M1294	84.091		59.040	1.00101.32	6
ATOM	18874	CZ		M1294	83.035		58.585	1.00101.85	6
MOTA	18875	С		M1294	81.397		62.192	1.00 58.03	6
MOTA	18876	0		M1294	80.399		62.899	1.00 58.40	8
MOTA	18877	N		M1295	82.496		62.420	1.00 42.46	7
ATOM	18878	CA		M1295	82.675		63.578	1.00 42.27	6
ATOM	18879	СВ		M1295	82.673	124.601	63.221	1.00 81.31	6
ATOM	18880	CG1		M1295	83.464		64.265	1.00 81.68	6
ATOM	18881	CG2		M1295	81.252	124.090	63.175	1.00 82.09	6
ATOM	18882	C		M1295	84.081		63.952	1.00 42.78	6
MOTA	18883	0		M1295	84.895	126.703	63.058	1.00 43.54	8
MOTA	18884	N		M1296	84.385		65.243	1.00 57.95	7
MOTA	18885	CA		M1296	85.735	126.972	65.626	1.00 58.50	6
MOTA	18886 18887	CB		M1296	85.979		65.228	1.00 53.08	6
ATOM ATOM	18888	CG CD		M1296 M1296	85.075	129.430	65.944	1.00 51.32	6
ATOM	18889	OE1		M1296 M1296	84.901 84.295	130.742 131.680	65.183	1.00 50.83	6
ATOM	18890	OE1		M1296	85.354		65.744 64.022	1.00 50.78 1.00 49.13	8
ATOM	18891	C		M1296	86.062	126.807	67.091	1.00 49.13	8 6
ATOM	18892	Ö		M1296	85.259		67.961	1.00 59.33	8
ATOM	18893	N		M1297	87.255	126.284	67.348	1.00 58.10	7
ATOM	18894	CA		M1297	87.745	126.107	68.707	1.00 68.46	6
ATOM	18895	CB		M1297	88.637		68.810	1.00113.52	6
ATOM	18896	ŌĠ		M1297	87.894		68.675	1.00116.51	8
ATOM	18897	С		M1297	88.583	127.352	68.971	1.00 70.65	6
ATOM	18898	0	SER	M1297	88.364		68.357	1.00 71.33	8
ATOM	18899	N	GLU	M1298	89.528	127.256	69.895	1.00 82.71	7
ATOM	18900	CA	GLU	M1298	90.413	128.375	70.159	1.00 84.60	6
ATOM	18901	CB	GLU	M1298	90.840	128.403	71.625	1.00116.20	6
MOTA	18902	CG		M1298	91.751	127.258	72.014	1.00118.49	6
MOTA	18903	$^{\mathrm{CD}}$		M1298		127.279	73.482	1.00120.31	6
MOTA	18904			M1298		127.255	74.310	1.00119.43	8
MOTA	18905	OE2		M1298	93.309		73.806	1.00123.17	8
MOTA	18906	С		M1298		128.023	69.277	1.00 85.69	6
ATOM	18907	0		M1298	92.488		69.049	1.00 86.59	8
MOTA	18908	N		M1299		126.791	68.778	1.00 52.28	7
MOTA	18909	CA		M1299		126.298	67.924	1.00 52.99	6
ATOM	18910	C		M1299	92.507		66.445	1.00 53.87	6
MOTA MOTA	18911 18912	O N		M1299 M1300		126.744 126.692	65.764	1.00 54.31	8 7
ATOM	18913	CA		M1300		120.092	65.940 64.532	1.00 46.42	
ATOM	18914	CB		M1300	91.683	127.009	63.602	1.00 49.22 1.00110.85	6 6
ATOM	18915	CG		M1300		124.546	63.002	1.00110.85	6
ATOM	18916	CD1		M1300		124.098	64.235	1.00115.65	6
ATOM	18917	CD2		M1300		123.640	64.085	1.00115.60	6
MOTA	18918			M1300		122.767	64.566	1.00117.56	6
MOTA	18919			M1300		122.310	64.415	1.00117.01	6
					-				-

ATOM 18970 CB LEU M1306 75.416 127.011 54.850 1.00 72.93 6 ATOM 18971 CG LEU M1306 74.078 126.476 55.345 1.00 74.33 6

ATOM	18976	N	PRO	M1307	73.736	127.699	51.830	1.00 74.34	7
MOTA	18977	$^{\mathrm{CD}}$	PRO	M1307	74.106	126.586	50.946	1.00129.51	6
MOTA	18978	CA	PRO	M1307	72.680	128.500	51.203	1.00 74.47	6
MOTA	18979	CB	PRO	M1307	72.743	128.075	49.733	1.00130.28	6
MOTA	18980	CG	PRO	M1307	74.028	127.251	49.614	1.00130.06	6
ATOM	18981	С		M1307	71.341	128.120	51.832	1.00 75.61	6
ATOM	18982	0	PRO	M1307	71.300	127.285	52.735	1.00 76.06	8
ATOM	18983	N		M1308	70.259	128.718	51.337	1.00161.78	7
ATOM	18984	CA		M1308	68.891	128.466	51.815	1.00162.39	6
ATOM	18985	CB		M1308	67.908	128.594	50.645	1.00154.21	6
ATOM	18986	CG		M1308		129.780	49.729	1.00154.31	6
ATOM	18987	CD		M1308	67.253	129.718	48.500	1.00153.70	6
ATOM	18988	CE		M1308		130.879	47.560	1.00153.41	6
ATOM	18989	NZ	LYS	M1308	66.651	130.838	46.364	1.00153.40	7
ATOM	18990	С		M1308	68.678	127.090	52.464	1.00162.62	6
ATOM	18991	0		M1308	68.168	126.173	51.820	1.00163.21	8
ATOM	18992	N		M1309	69.040	126.950	53.735	1.00136.19	7
ATOM	18993	CA		M1309	68.878	125.675	54.428	1.00136.08	6
ATOM	18994	CB		M1309	70.096	124.798	54.199	1.00 66.84	6
ATOM	18995	C		M1309	68.664	125.881	55.919	1.00135.99	6
ATOM	18996	Ō		M1309	69.207	126.811	56.507	1.00136.64	8
ATOM	18997	N		M1310	67.878	124.998	56.525	1.00106.87	7
ATOM	18998	CA		M1310	67.573	125.072	57.951	1.00106.10	6
ATOM	18999	СВ		M1310	66.575	123.978	58.307	1.00147.46	6
ATOM	19000	C		M1310		124.961	58.837	1.00105.72	6
ATOM	19001	0		M1310	69.120	123.900	59.385	1.00106.16	8
ATOM	19002	N		M1311	69.543	126.067	58.998	1.00103.72	7
ATOM	19003	CA		M1311		126.059	59.800	1.00103.23	6
MOTA	19004	СВ	ALA	M1311	71.808	126.973	59.166	1.00 38.90	6
ATOM	19005	C	ALA	M1311	70.564	126.442	61.258	1.00103.42	6
MOTA	19006	0	ALA	M1311	70.879	127.567	61.646	1.00103.61	8
MOTA	19007	N	LEU	M1312	70.067	125.508	62.069	1.00181.17	7
MOTA	19008	CA	LEU	M1312	69.845	125.778	63.490	1.00180.81	6
MOTA	19009	CB	LEU	M1312	69.559	124.476	64.250	1.00186.51	6
MOTA	19010	CG	LEU	M1312	68.198	123.805	64.035	1.00187.60	6
MOTA	19011	CD1	LEU	M1312	68.016	123.415	62.578	1.00187.30	6
MOTA	19012	CD2		M1312		122.582	64.927	1.00188.28	6
ATOM	19013	С		M1312	71.050	126.496	64.105	1.00179.46	6
ATOM	19014	0		M1312	72.124		64.267	1.00179.00	8
MOTA	19015	N		M1313		127.767	64.439	1.00 82.28	7
ATOM	19016	CA		M1313		128.588	65.017	1.00 81.18	6
ATOM	19017	CB		M1313		130.025	65.222	1.00208.87	6
MOTA	19018	CG		M1313		130.687	64.186	1.00208.87	6
ATOM	19019	CD1		M1313		132.143	64.583	1.00208.87	6
MOTA	19020	CD2		M1313		130.616	62.795	1.00208.87	6
ATOM	19021	C		M1313		128.023	66.354	1.00 80.04	6
MOTA	19022	0		M1313		126.822	66.481	1.00 79.91	8
ATOM	19023	N		M1314		128.917	67.333	1.00141.50	7
ATOM	19024	CA		M1314	72.917		68.693	1.00140.89	6
ATOM	19025	CB		M1314		127.148	69.032	1.00136.16	6
ATOM	19026	C		M1314		128.867	68.946	1.00140.12	6
ATOM	19027	0		M1314		129.933	68.592	1.00140.20	8
ATOM	19028	N		M1315	75.070		69.566	1.00 67.06	7
ATOM	19029	CA		M1315		128.012	69.902	1.00 65.06	6
ATOM	19030	CB		M1315		129.276	70.725	1.00121.14	6
ATOM	19031	С	ALA	M1315	//.048	126.781	70.649	1.00 63.78	6

ATOM ATOM ATOM ATOM ATOM ATOM	19033 19034 19035 19036 19037	O N CA CB CG OD1 OD2	ALA M1315 ASP M1316 ASP M1316 ASP M1316 ASP M1316 ASP M1316 ASP M1316	76.370 125.762 78.285 126.904 78.999 125.841 78.762 125.949 79.983 126.538 81.081 125.944 79.855 127.609	70.783 71.132 71.848 73.383 74.151 74.152 74.766	1.00 64.29 1.00 77.21 1.00 76.28 1.00 39.27 1.00 36.80 1.00 36.63 1.00 35.24	8 7 6 6 8 8
ATOM ATOM	19039	C O	ASP M1316 ASP M1316	78.717 124.414 77.698 124.141	71.338 70.694	1.00 76.42 1.00 76.45	6 8
ATOM	19041	N	GLY M1317	79.665 123.519	71.606	1.00174.10	7
ATOM ATOM		CA C	GLY M1317 GLY M1317	79.551 122.129 79.249 121.876	71.200 69.735	1.00174.06 1.00173.96	6 6
ATOM		0	GLY M1317	78.716 122.745	69.046	1.00174.32	8
MOTA	19045	N	ALA M1318	79.600 120.677	69.271	1.00 93.21	7
ATOM		CA	ALA M1318 ALA M1318	79.378 120.226 79.327 121.421	67.892 66.919	1.00 92.30 1.00 95.94	6 6
ATOM ATOM		CB C	ALA M1318	80.473 119.251	67.456	1.00 93.94	6
ATOM		Ö	ALA M1318	81.432 119.658	66.813	1.00 91.28	8
ATOM		N	ALA M1319	80.326 117.971	67.801	1.00 38.87	7
ATOM		CA CB	ALA M1319 ALA M1319	81.304 116.936 81.009 115.661	67.437 68.234	1.00 39.23 1.00 87.05	6 6
ATOM ATOM		CP	ALA M1319 ALA M1319	81.334 116.620	65.924	1.00 37.03	6
ATOM		Ö	ALA M1319	82.388 116.585	65.286	1.00 40.10	8
ATOM		N	VAL M1320	80.152 116.375	65.376	1.00 72.64	7
ATOM ATOM		CA CB	VAL M1320 VAL M1320	79.943 116.064 80.241 114.586	63.969 63.668	1.00 73.01 1.00176.14	6 6
ATOM		CG1	VAL M1320	79.897 114.278	62.230	1.00170.14	6
ATOM	19059	CG2	VAL M1320	81.698 114.272	63.937	1.00176.43	6
ATOM		C	VAL M1320	78.453 116.292	63.835	1.00 73.15 1.00 73.64	6 8
ATOM ATOM		N O	VAL M1320 GLU M1321	77.924 116.579 77.807 116.155	62.760 64.988	1.00 73.64	o 7
ATOM		CA	GLU M1321	76.376 116.322	65.163	1.00194.77	6
ATOM	19064	СВ	GLU M1321	76.109 117.580	65.992	1.00100.58	6
ATOM		CG	GLU M1321	74.649 117.868	66.240	1.00101.19 1.00101.43	6 6
MOTA MOTA		CD OE1	GLU M1321 GLU M1321	74.443 119.152 74.859 119.214	67.008 68.182	1.00101.43	8
ATOM		OE2	GLU M1321	73.877 120.102	66.430	1.00102.32	8
ATOM		C	GLU M1321	75.615 116.392	63.856	1.00195.66	6
ATOM ATOM		O N	GLU M1321 ALA M1322	75.049 115.402 75.626 117.565	63.401 63.242	1.00196.90 1.00 36.01	8 7
ATOM		CA	ALA M1322	74.913 117.764	62.007	1.00 36.83	6
ATOM	19073	CB	ALA M1322	73.446 117.750	62.283	1.00 39.61	6
ATOM		C	ALA M1322	75.285 119.078	61.351	1.00 38.19	6
ATOM ATOM		O N	ALA M1322 GLY M1323	74.402 119.804 76.585 119.381	60.907 61.305	1.00 39.21 1.00123.19	8 7
ATOM		CA	GLY M1323	77.096 120.608	60.696	1.00125.25	6
ATOM	19078	С	GLY M1323	76.300 121.877	60.944	1.00126.30	6
ATOM		0	GLY M1323	76.862 122.955 74.985 121.712	61.137 60.909	1.00127.31 1.00 59.99	8 7
ATOM ATOM		N CA	GLN M1324 GLN M1324	74.985 121.712 73.968 122.720	61.112	1.00 39.99	6
ATOM		CB	GLN M1324	74.544 123.989	61.749	1.00179.79	6
ATOM	19083	CG	GLN M1324	74.458 123.966	63.279	1.00180.04	6
ATOM		CD OF1	GLN M1324 GLN M1324	73.139 123.376 72.059 123.771	63.777 63.334	1.00179.63 1.00180.03	6 8
ATOM ATOM		OE1 NE2		73.226 122.427	64.704	1.00130.03	7
ATOM		C	GLN M1324	73.114 123.068	59.888	1.00 62.73	6

ATOM ATOM ATOM	19088 19089 19090	O N CD	GLN M1324 PRO M1325 PRO M1325	72.434 124.092 73.149 122.232 74.250 121.338	59.869 58.839 58.436	1.00 63.05 1.00 82.54 1.00101.31	8 7 6
ATOM	19090	CA	PRO M1325	72.321 122.552	57.677	1.00101.31	6
MOTA	19092	CB	PRO M1325	73.278 122.346	56.527	1.00101.32	6
ATOM	19093	CG	PRO M1325	73.967 121.108	56.961	1.00101.85	6
MOTA	19094	C	PRO M1325	71.215 121.517	57.676	1.00 83.19	6
MOTA	19095	0	PRO M1325	70.057 121.811	57.426	1.00 83.28	8
MOTA	19096	N	ALA M1326	71.622 120.295	57.985	1.00100.14	7
MOTA	19097	CA	ALA M1326	70.770 119.123	58.043	1.00101.85	6
MOTA	19098	CB	ALA M1326	70.983 118.401	59.362	1.00128.51	6
MOTA	19099	C	ALA M1326	69.292 119.303	57.812	1.00103.03	6
MOTA	19100	0	ALA M1326	68.629 120.120	58.448	1.00103.18	8
MOTA	19101	N	ALA M1327	68.785 118.521	56.876	1.00208.87	7
ATOM	19102	CA	ALA M1327	67.372 118.511	56.577	1.00208.87	6
MOTA MOTA	19103 19104	CB C	ALA M1327 ALA M1327	67.147 118.647 67.030 117.106	55.083 57.057	1.00151.94 1.00208.87	6 6
ATOM	19104	0	ALA M1327 ALA M1327	65.944 116.578	56.801	1.00208.87	8
ATOM	19105	N	ARG M1328	68.004 116.534	57.770	1.00208.87	7
ATOM	19107	CA	ARG M1328	67.966 115.193	58.344	1.00208.87	6
ATOM	19108	CB	ARG M1328	66.517 114.775	58.675	1.00206.75	6
ATOM	19109	CG	ARG M1328	65.971 113.606	57.868	1.00207.80	6
MOTA	19110	CD	ARG M1328	64.507 113.333	58.169	1.00208.71	6
ATOM	19111	NE	ARG M1328	63.624 114.335	57.579	1.00208.87	7
ATOM	19112	CZ	ARG M1328	63.399 115.539	58.093	1.00208.87	6
ATOM	19113	NH1	ARG M1328	63.991 115.908	59.221	1.00208.87	7
ATOM	19114	NH2	ARG M1328	62.577 116.378	57.477	1.00208.87	7
ATOM	19115	C	ARG M1328	68.634 114.196	57.390	1.00208.87	6
ATOM	19116	O	ARG M1328	68.627 112.988 69.233 114.707	57.633	1.00208.87	8 7
ATOM	19117 19118	N CA	GLY M1329 GLY M1329	69.233 114.707 69.879 113.821	56.314 55.362	1.00 71.92 1.00 69.86	6
ATOM	19119	CA	GLY M1329	71.369 113.721	55.597	1.00 69.86	6
ATOM	19120	0	GLY M1329	72.151 114.215	54.790	1.00 69.45	8
ATOM	19121	Ň	ALA M1330	71.753 113.067	56.694	1.00 68.05	7
ATOM	19122	CA	ALA M1330	73.160 112.908	57.082	1.00 66.72	6
ATOM	19123	CB	ALA M1330	73.332 111.658	57.938	1.00112.89	6
MOTA	19124	С	ALA M1330	74.121 112.875	55.903	1.00 65.68	6
MOTA	19125	0	ALA M1330	74.193 111.891	55.169	1.00 65.37	8
MOTA	19126	N	ALA M1331	74.856 113.972	55.738	1.00149.64	7
ATOM	19127	CA	ALA M1331	75.817 114.115	54.652	1.00149.47	6
MOTA	19128	СВ	ALA M1331	76.919 115.112	55.043		6
ATOM	19129 19130	C	ALA M1331 ALA M1331	76.433 112.778 76.557 111.884	54.283 55.125	1.00149.01 1.00149.88	6
MOTA MOTA	19130	O N	ALA M1331 ALA M1332	76.803 112.652	53.125	1.00149.88	8 7
ATOM	19132	CA	ALA M1332	77.414 111.440	52.493	1.00120.33	6
ATOM	19133	CB	ALA M1332	78.474 111.813	51.450	1.00 61.10	6
ATOM	19134	Ċ	ALA M1332	78.041 110.617	53.623	1.00117.29	6
MOTA	19135	0	ALA M1332	79.100 110.971	54.127	1.00117.59	8
MOTA	19136	N	PRO M1333	77.372 109.526	54.057	1.00 83.42	7
MOTA	19137	CD	PRO M1333	76.088 109.004	53.555	1.00136.34	6
MOTA	19138	CA	PRO M1333	77.881 108.669	55.125	1.00 80.62	6
MOTA	19139	CB	PRO M1333	77.118 107.377	54.904	1.00133.70	6
ATOM	19140	CG	PRO M1333	75.771 107.892	54.543	1.00135.07	6
ATOM ATOM	19141 19142	С О	PRO M1333 PRO M1333	79.389 108.492 80.036 108.133	55.028 56.008	1.00 78.89 1.00 79.83	6 8
ATOM	19142	N	HIS M1334	79.949 108.740	53.847	1.00 79.83	7
222 011	エノ ルモリ	T.A.	1110 111004	/J.J.J.J 100./40	55.047	1.00 03.31	,

ATOM ATOM	19144 19145	CA CB		M1334 M1334	81.394 108. 81.758 108.		53.655 52.181	1.00 81.28 1.00 94.91	6 6
ATOM	19146	CG		M1334	81.530 107.		51.378	1.00 95.11	6
MOTA	19147	CD2		M1334	80.781 107.	325	50.274	1.00 95.05	6
ATOM	19148	ND1		M1334	82.127 106.		51.686	1.00 96.14	7
ATOM	19149	CE1		M1334	81.754 105.		50.804	1.00 96.08	6
ATOM	19150	NE2		M1334	80.937 106.		49.937	1.00 96.06	7
ATOM	19151	C		M1334	82.092 109.		54.450	1.00 79.10	6
ATOM	19152	0		M1334	83.249 109.		54.847	1.00 78.74	8
ATOM	19153	N		M1335	81.368 110. 81.843 111.		54.655	1.00 78.96 1.00 77.07	7 6
MOTA	19154 19155	CA CB		M1335 M1335	81.843 111. 80.930 113.		55.409 55.168	1.00 77.07 1.00 62.73	6
ATOM ATOM	19155	СБ СG		M1335	81.140 114.		53.100	1.00 63.05	6
ATOM	19157	CD		M1335	79.928 114.		53.622	1.00 63.16	6
ATOM	19158	OE1		M1335	78.992 114.		52.948	1.00 62.30	8
ATOM	19159	NE2		M1335	79.924 116.		54.162	1.00 65.06	7
MOTA	19160	C		M1335	81.796 111.		56.899	1.00 76.06	6
MOTA	19161	0	GLN	M1335	82.764 111.		57.638	1.00 77.25	8
MOTA	19162	N		M1336	80.648 111.		57.341	1.00 51.91	7
MOTA	19163	CA		M1336	80.486 110.		58.730	1.00 48.96	6
MOTA	19164	CB		M1336	79.127 110.		58.951	1.00 14.76	6
ATOM	19165	CG		M1336	79.055 109.		60.345	1.00 13.94	6
MOTA	19166	CD1		M1336 M1336	78.413 110. 78.275 108.		61.307 60.283	1.00 13.87 1.00 14.47	6 6
ATOM ATOM	19167 19168	CD2 C		M1336	81.560 109.		59.109	1.00 48.58	6
ATOM	19169	Ö		M1336	82.291 109.		60.079	1.00 49.17	8
ATOM	19170	N		M1337	81.652 108.		58.355	1.00 42.86	7
ATOM	19171	CA		M1337	82.684 107.		58.626	1.00 42.77	6
MOTA	19172	CB		M1337	82.784 106.	660	57.492	1.00 34.32	6
ATOM	19173	CG		M1337	84.063 105.		57.441	1.00 32.83	6
MOTA	19174	CD1		M1337	84.467 105.		58.819	1.00 32.74	6
ATOM	19175	CD2		M1337	83.841 104.		56.540	1.00 31.78	6
ATOM	19176	C		M1337	84.003 108. 84.677 108.		58.746 59.770	1.00 43.69 1.00 44.59	6 8
ATOM	19177 19178	N O		M1337 M1338	84.677 108. 84.353 109.		57.698	1.00 44.59	7
ATOM ATOM	19179	CA		M1338	85.604 109.		57.664	1.00 57.05	6
ATOM	19180	CB		M1338	85.593 110.		56.539	1.00130.02	6
ATOM	19181	CG	GLU		86.906 111.		56.419	1.00134.03	6
ATOM	19182	CD	GLU	M1338	88.096 110.	812	56.188	1.00135.60	6
ATOM	19183	OE1	GLU	M1338	88.174 110.	196	55.102	1.00135.05	8
ATOM	19184	OE2		M1338	88.950 110.		57.095	1.00137.56	8
ATOM	19185	C		M1338	85.882 110.		58.969	1.00 57.54	6
ATOM	19186	0		M1338	87.023 110.		59.414	1.00 57.85	8
ATOM	19187	N		M1339 M1339	84.828 111. 84.964 111.		59.576 60.835	1.00 61.79 1.00 62.44	7 6
ATOM ATOM	19188 19189	CA CB		M1339	84.783 113.		60.625	1.00 63.58	6
ATOM	19190	C		M1339	83.947 111.		61.829	1.00 63.55	6
ATOM	19191	Ö		M1339	82.907 111.		62.067	1.00 64.92	8
MOTA	19192	N		M1340	84.264 110.	147	62.375	1.00 20.48	7
MOTA	19193	CA		M1340	83.463 109.		63.376	1.00 20.92	6
MOTA	19194	CB		M1340	81.979 109.		63.266	1.00116.40	6
ATOM	19195	CG		M1340	81.276 109.		64.602	1.00120.37	6
MOTA	19196	CD		M1340	82.096 110. 81.708 109.		65.683 67.087	1.00122.67 1.00124.05	6 6
MOTA MOTA	19197 19198	CE NZ		M1340 M1340	82.634 110.		68.118	1.00124.03	7
ATOM	19198	NZ C		M1340 M1340	83.653 107.		63.281	1.00123.09	6
111 011	1010	_	-10	111010	55.555 107.	·	30.202		•

MOTA	19200	0	LYS	M1340	83.144	107.176	64.105	1.00 19.94	8
ATOM	19201	N	GLY	M1341	84.391		62.267	1.00 53.79	7
ATOM	19202	CA		M1341	84.667		62.094	1.00 54.10	6
ATOM	19203	С	GLY	M1341	83.566	105.182	61.526	1.00 53.76	6
ATOM	19204	0	GLY	M1341	82.575	105.680	60.999	1.00 54.84	8
ATOM	19205	N	PRO	M1342	83.742	103.852	61.577	1.00 39.93	7
ATOM	19206	CD	PRO	M1342	85.023	103.183	61.858	1.00 71.77	6
ATOM	19207	CA	PRO	M1342	82.769	102.878	61.077	1.00 39.54	6
ATOM	19208	CB	PRO	M1342	83.639	101.681	60.744	1.00 71.12	6
MOTA	19209	CG	PRO	M1342	84.627	101.720	61.845	1.00 71.46	6
ATOM	19210	С	PRO	M1342	81.763	102.542	62.164	1.00 39.38	6
ATOM	19211	0	PRO	M1342	80.649	102.098	61.888	1.00 39.75	8
MOTA	19212	N	GLU	M1343	82.180	102.742	63.407	1.00110.36	7
ATOM	19213	CA	GLU	M1343	81.324	102.472	64.548	1.00111.07	6
ATOM	19214	CB	GLU	M1343	82.000	102.939	65.843	1.00116.77	6
MOTA	19215	CG		M1343	83.474		65.949	1.00120.21	6
ATOM	19216	CD	GLU	M1343	84.384		65.271	1.00122.14	6
ATOM	19217	OE1		M1343	83.996		64.212	1.00123.85	8
ATOM	19218	OE2		M1343	85.490	103.837	65.792	1.00122.14	8
ATOM	19219	С		M1343	80.026	103.239	64.332	1.00110.60	6
ATOM	19220	0		M1343	78.933	102.675	64.414	1.00111.23	8
ATOM	19221	N		M1344	80.159	104.530	64.042	1.00 60.41	7
ATOM	19222	CA		M1344	79.005	105.384	63.810	1.00 56.94	6
ATOM	19223	CB		M1344	79.449	106.816	63.604	1.00110.71	6
MOTA	19224	C		M1344	78.283	104.887	62.584	1.00 54.06	6
MOTA	19225	0		M1344	77.228	104.275	62.677	1.00 54.80	8
ATOM	19226	N		M1345		105.151	61.432	1.00 39.51	7
ATOM	19227	CA		M1345	78.291		60.175	1.00 37.26	6
ATOM	19228	СВ		M1345	79.381		59.133	1.00 51.64	6
ATOM	19229	CG1		M1345	78.787		57.890	1.00 50.18	6
MOTA	19230	CG2		M1345	80.011	105.846	58.772	1.00 52.02	6
ATOM	19231	C		M1345	77.426	103.473	60.267	1.00 35.69	6
ATOM	19232	0		M1345	76.256	103.496	59.885	1.00 36.80	8 7
ATOM	19233	N		M1346	77.993	102.374	60.753	1.00 24.68	
MOTA	19234	CA		M1346	77.208 77.924	101.159	60.871	1.00 21.54	6 6
ATOM	19235 19236	CB CG		M1346 M1346	79.060	100.115	61.717 61.060	1.00 55.67 1.00 59.34	6
ATOM ATOM	19237	CD		M1346	79.650	98.355	61.992	1.00 59.34	6
ATOM	19237	OE1		M1346	78.917	97.422	62.386	1.00 62.82	8
ATOM	19239			M1346	80.842	98.482	62.344	1.00 62.52	8
ATOM	19240	C		M1346		101.517	61.574	1.00 17.78	6
ATOM	19241	0	GLII	M1346	74.839		60.972	1.00 15.48	8
ATOM	19242	N		M1347	76.046		62.858	1.00 13.87	7
ATOM	19243	CA		M1347		102.148	63.655	1.00 13.87	6
ATOM	19244	CB		M1347	75.305		65.095	1.00 78.35	6
ATOM	19245	CG		M1347	74.182		66.105	1.00 84.10	6
ATOM	19246	CD		M1347	73.758		66.154	1.00 87.61	6
ATOM	19247	NE		M1347	72.398	100.580	66.668	1.00 89.27	7
MOTA	19248	CZ		M1347	71.451	99.858	66.072	1.00 90.63	6
ATOM	19249	NH1		M1347	71.717	99.214	64.943	1.00 88.28	7
ATOM	19250	NH2		M1347	70.228	99.800	66.588	1.00 92.19	7
MOTA	19251	C		M1347	74.113		63.057	1.00 13.87	6
ATOM	19252	0		M1347			63.463	1.00 13.87	8
ATOM	19253	N	TYR	M1348	74.698	104.020	62.096	1.00 22.17	7
MOTA	19254	CA		M1348		105.106	61.477	1.00 20.27	6
ATOM	19255	CB	TYR	M1348	74.811	106.233	60.919	1.00 20.01	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19256 19257 19258 19259 19260 19261 19262 19263 19264 19265	CG CD1 CE1 CD2 CE2 CZ OH C	TYR M1 LEU M1	348 348 348 348 348 348 348 348		107.186 107.686 108.462 107.504 108.295 108.767 109.582 104.562 105.049 103.576	60.163 60.764 60.084 58.842 58.141 58.785 58.156 60.311 59.986 59.652	1.00 1.00 1.00 1.00 1.00 1.00 1.00	18.85 19.10 18.16 19.50 19.53 19.20 22.06 21.43 21.47 67.99	6 6 6 6 6 8 6 8 7
MOTA MOTA	19266 19267	CA CB	LEU M1 LEU M1	349 349	73.186 74.197	102.943 102.011	58.498 57.813	1.00 1.00	69.05 27.21	6 6
ATOM ATOM ATOM	19268 19269 19270	CG CD1 CD2	LEU M1 LEU M1 LEU M1	349	74.654 74.591 76.052	102.470 103.979 101.971	56.428 56.348 56.147		24.57 23.50 23.96	6 6 6
MOTA MOTA	19271 19272	C O	LEU M1 LEU M1	349	71.967	102.170 102.291	58.964 58.386	1.00	70.22 71.16	6 8
ATOM ATOM	19273 19274	N CA	VAL M1 VAL M1	350	72.139 71.038	101.396	60.029	1.00		7 6
ATOM ATOM ATOM	19275 19276 19277	CB CG1 CG2	VAL M1 VAL M1 VAL M1	350	71.478 70.286 72.527	99.755 99.038 98.749	61.752 62.333 61.312	1.00	82.77 82.95 84.45	6 6
MOTA MOTA	19278 19279	C 0	VAL M1 VAL M1	350	69.887 68.855		60.993 60.327	1.00	39.38 39.26	6 8
ATOM ATOM	19280 19281	N CA	ASP M1	351	70.064 69.002	103.055	62.108 62.606	1.00		7 6
ATOM ATOM ATOM	19282 19283 19284	CB CG OD1	ASP M1 ASP M1 ASP M1	351	69.514 69.545 68.500	104.009 103.363 102.857	63.693 65.083 65.543	1.00 1.00 1.00	53.66 55.50 55.66	6 6 8
MOTA MOTA	19285 19286		ASP M1 ASP M1	351 351	70.616 68.359	103.367 103.837	65.725 61.479	1.00 1.00	57.05 33.69	8 6
ATOM ATOM ATOM	19287 19288 19289	O N CA	ASP M1 GLU M1 GLU M1	352	67.153 69.165 68.637	103.756 104.554 105.378	61.281 60.709 59.632	1.00 1.00 1.00	33.24 31.50 32.99	8 7 6
MOTA MOTA	19290 19291	CB CG	GLU M1 GLU M1	352	69.776 69.323	106.138 107.291	58.959 58.087		45.71	6 6
ATOM ATOM	19292 19293	CD OE1	GLU M1 GLU M1	352	68.407 67.176	108.257	58.815 58.776	1.00	46.97	6 8
ATOM ATOM ATOM	19294 19295 19296	OE2 C O	GLU M1 GLU M1 GLU M1	352	68.922 67.800 66.940	109.219 104.647 105.260	59.427 58.583 57.939	1.00 1.00 1.00	47.46 34.27 34.81	8 6 8
MOTA MOTA	19297 19298	N CA	ILE M1 ILE M1	353 353	68.034 67.248	103.351 102.606	58.399 57.418	1.00 1.00	46.14 45.23	7 6
ATOM ATOM ATOM	19299 19300 19301	CB CG2 CG1	ILE M1 ILE M1 ILE M1	353	67.895 66.917 69.203	101.275 100.436 101.526	57.061 56.253 56.304	1.00	13.96 13.87 13.87	6 6 6
MOTA MOTA	19302 19303	CD1 C	ILE M1 ILE M1	353 353	69.996 65.855	100.277 102.328	56.008 57.958	1.00 1.00	13.87 46.27	6 6
ATOM ATOM ATOM	19304 19305 19306	O N CA	ILE M1 GLN M1 GLN M1	354	64.856 65.796 64.521		57.310 59.143 59.785		46.46 34.00 33.64	8 7 6
ATOM ATOM	19307 19308	CB CG	GLN M1 GLN M1	354	64.715 65.309	101.244 99.902	61.294 61.696	1.00 1.00	20.04 16.27	6 6
ATOM ATOM ATOM	19309 19310 19311	CD OE1 NE2	GLN M1 GLN M1	354	64.316 63.361 64.533	98.774 98.689 97.909	61.570 62.325 60.605	1.00	13.87 13.87 14.26	6 8 7

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19312 19313 19314 19315 19316 19317 19318 19320 19321 19322 19323 19322 19323 19324 19325 19325 19326 19327 19328 19329 19330 19331 19332 19333	CONCACBCG1CCACCBCCCCCCCCCCCCCCCCCCCCCCCCCCC	GLN LYS LYS LYS LYS LYS LYS LYS LYS LYS VAL VAL VAL VAL VAL TYR	M1354 M1354 M1355 M1355 M1355 M1355 M1355 M1355 M1355 M1356 M1356 M1356 M1356 M1356 M1357	62.573 63.912 63.110 64.015 64.802 65.414 66.185 66.770 62.110 60.924 62.578 61.696 62.459 61.496 63.540 60.666 59.469 61.124	102.586 102.430 103.751 104.961 106.187 106.526 107.917 108.261 109.630 104.926 105.181 104.601 104.557 104.280 104.309 105.328 103.478 103.711 102.285 101.229 99.257 98.125 97.498 99.743 99.743 99.743 99.743 99.743 99.743 99.743 99.743 99.743 99.743	59.525 58.821 60.070 59.930 59.779 61.035 60.955 62.222 62.165 58.787 59.003 57.579 56.411 53.940 56.450 56.450 56.450 56.450 56.323 56.483 57.519 57.519	1.00 34.96 1.00 34.64 1.00 49.00 1.00 50.54 1.00144.26 1.00148.98 1.00151.56 1.00152.92 1.00153.96 1.00 49.98 1.00 50.04 1.00 36.25 1.00 35.59 1.00 99.73 1.00100.72 1.00101.97 1.00 34.12 1.00 33.45 1.00 26.83 1.00 27.60 1.00 32.03 1.00 29.83 1.00 29.83 1.00 29.38 1.00 29.37 1.00 29.83	68766667687666687666666686
ATOM ATOM	19341 19342	N O	ARG	M1357 M1358	59.964	102.027 101.727	58.233 59.564	1.00 30.32 1.00 41.68	8 7
ATOM	19343	CA		M1358		102.137	60.800	1.00 43.86 1.00 40.55	6 6
ATOM	19344	CB		M1358 M1358		102.690 101.636	61.801 62.467	1.00 40.33	6
MOTA MOTA	19345 19346	CG CD		M1358	62.310		63.260	1.00 37.99	6
ATOM	19340	NE		M1358	63.033		63.954	1.00 39.09	7
MOTA	19348	CZ		M1358	64.135		64.673	1.00 39.01	6
ATOM	19349	NH1		M1358	64.657		64.790	1.00 39.99	7
ATOM	19350	NH2		M1358	64.702		65.295	1.00 38.71	7
ATOM	19351	С		M1358		103.172	60.601	1.00 45.79	6
MOTA	19352	0	ARG	M1358		103.086		1.00 45.87	8
ATOM	19353	N		M1359		104.148	59.737	1.00 43.17	7 6
MOTA	19354	CA		M1359	57.529		59.467 58.771	1.00 46.65 1.00 42.33	6
ATOM	19355	CB		M1359	58.255 56.296		58.656	1.00 42.33	6
MOTA	19356 19357	C		M1359 M1359	55.216		58.805	1.00 50.25	8
ATOM ATOM	19357	N O		M1360		103.810	57.799	1.00 55.01	7
ATOM	19359	CA		M1360		103.356	57.011	1.00 57.94	6
ATOM	19360	CB		M1360		103.119	55.563	1.00 95.02	6
ATOM	19361	CG		M1360		104.410	54.853	1.00 98.34	6
ATOM	19362	CD		M1360		104.232	53.361	1.00101.35	6
ATOM	19363	OE1		M1360		103.570	52.917	1.00103.64	8
MOTA	19364	NE2		M1360		104.824	52.577	1.00103.29 1.00 59.58	7 6
MOTA	19365	C		M1360		102.111	57.609 57.002	1.00 59.58	8
MOTA	19366	O N		M1360	53.803	101.303	58.800	1.00 66.39	7
MOTA	19367	N	СЬΧ	M1361	JJ. 14/	101./20	50.000	1.00 00.00	,

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19368 19369 19370 19371 19372 19373 19374 19375 19376 19377 19378 19380 19381 19382 19383 19384 19385 19386 19388	CA C O N CA CG2 C O N CA CB CCD CC O N CA CB CC O CC O CC	GLY GLY VAL VAL VAL VAL VAL LYS LYS LYS LYS LYS LYS LYS LYS LYS LY	M1361 M1361 M1362 M1362 M1362 M1362 M1362 M1362 M1363 M1363 M1363 M1363 M1363 M1363 M1363 M1363 M1363 M1363 M1363 M1363 M1363 M1364 M1364	54.538 55.245 54.779 56.349 57.067 58.148 58.787 57.540 57.729 58.354 57.629 58.216 57.134 56.250 54.220 53.114 59.399 59.597 60.202 61.378 61.870	100.577 99.237 98.345 99.072 97.791 97.778 96.412 98.151 97.500 98.382 96.268 95.991 95.531 96.656 96.153 97.276 96.819 95.054 94.451 94.924 94.057 93.636	59.464 59.501 60.197 58.779 58.770 57.682 57.620 56.338 60.120 60.702 60.616 61.916 62.895 63.402 64.365 64.757 65.645 62.022 63.066 60.976 61.074 59.693	1.00 67.72 1.00 69.35 1.00 71.07 1.00 69.68 1.00 70.93 1.00114.35 1.00115.83 1.00114.45 1.00 71.13 1.00 60.31 1.00 60.45 1.00113.54 1.00115.84 1.00117.22 1.00118.04 1.00117.65 1.00 60.10 1.00 61.32 1.00 57.25 1.00 14.01	6687666668766666768766
ATOM ATOM ATOM	19389 19390 19391	CB CG CD1	LEU	M1364 M1364 M1364	61.870 62.815 63.224	94.619 94.088	59.693 59.001 57.667	1.00 14.01 1.00 13.87 1.00 13.87	6
MOTA	19392	CD2	LEU	M1364	62.144	95.938	58.821	1.00 15.32	6
ATOM	19393	C		M1364	62.480	94.871	61.734	1.00 57.05 1.00 57.32	6 8
ATOM	19394	0		M1364 M1365	62.358 63.555	96.086 94.202	61.864 62.125	1.00 57.32	7
ATOM ATOM	19395 19396	N CA		M1365	64.735	94.821	62.745	1.00 54.85	6
ATOM	19397	CB		M1365	64.404	96.051	63.621	1.00 89.31	6
MOTA	19398	CG		M1365	65.613	96.742	64.213	1.00 89.88	6
MOTA	19399	CD2		M1365	66.166	96.673	65.450	1.00 89.57	6
MOTA	19400	ND1	HIS	M1365	66.375	97.652	63.512	1.00 90.33	7
MOTA	19401			M1365	67.340	98.115	64.291	1.00 89.09	6
MOTA	19402	NE2		M1365	67.236		65.472	1.00 87.92 1.00 52.35	7 6
ATOM	19403	C		M1365	65.263 64.797	93.741 92.603	63.630 63.566	1.00 52.35	8
ATOM ATOM	19404 19405	N O		M1365 M1366	66.212		64.479	1.00143.74	7
ATOM	19405	CA		M1366	66.802		65.376	1.00140.35	6
ATOM	19407	CB		M1366	65.725		66.072	1.00 69.65	6
ATOM	19408	CG	ASP	M1366	66.301	91.249	66.911	1.00 72.16	6
MOTA	19409	OD1		M1366	66.912		67.940	1.00 73.07	8
MOTA	19410			M1366	66.162		66.534	1.00 73.84	8
ATOM	19411	C		M1366	67.627		64.495	1.00137.18	6 8
ATOM	19412	0		M1366	67.154		64.062 64.220	1.00138.07 1.00 72.57	7
MOTA	19413 19414	N CA		M1367 M1367	68.853 69.788		63.391	1.00 72.37	6
ATOM ATOM	19414	CB		M1367	69.583		63.611	1.00 31.25	6
ATOM	19416	CG		M1367	69.563		65.106	1.00 29.48	6
ATOM	19417	CD		M1367	69.400		65.400	1.00 28.92	6
ATOM	19418	CE	LYS	M1367	68.009		65.102	1.00 30.10	6
ATOM	19419	NZ		M1367	67.901		65.347	1.00 32.28	7
MOTA	19420	C		M1367	69.524		61.955	1.00 61.88 1.00 62.01	6 8
MOTA	19421	0		M1367	69.633 69.155		61.626 61.117	1.00 62.01	7
ATOM ATOM	19422 19423	N CA		M1368 M1368	68.869		59.713	1.00 56.41	6
HIOM	12473	CA	נידנו	111000	00.000	71.040	0,,,10		-

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19424 19425 19426 19427 19428 19429 19430 19431 19432 19433 19434 19435 19436 19437	CB CG CD2 ND1 CE1 NE2 C O N CA CB CG2 CG1 CD1	HIS M1368 HIS M1369 ILE M1369 ILE M1369 ILE M1369 ILE M1369 ILE M1369 ILE M1369	67.349 66.606 65.455 67.075 66.249 65.256 69.647 70.727 69.150 69.879 69.307 69.693 67.786 67.189	91.771 90.516 90.316 89.257 88.338 88.953 92.819 92.587 94.059 95.200 96.586 97.601 96.584 97.959	59.515 59.873 60.561 59.550 60.026 60.644 59.096 58.546 59.182 58.593 58.992 57.943 58.998 59.235	1.00 23.36 1.00 19.79 1.00 18.16 1.00 20.87 1.00 18.52 1.00 18.09 1.00 55.03 1.00 57.26 1.00 25.30 1.00 22.61 1.00 14.91 1.00 15.38 1.00 13.87 1.00 13.87	66676768766666
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19438 19439 19440 19441 19442 19443 19444 19445 19446 19447	C O N CA CB CG CD OE1 OE2 C	ILE M1369 ILE M1369 GLU M1370	71.342 72.222 71.598 72.961 72.955 71.953 72.238 72.470 72.200 73.772	95.203 95.502 94.868 94.833 94.549 95.450 95.651 94.660 96.816 93.798	59.022 58.223 60.285 60.803 62.318 63.083 64.585 65.307 65.053 60.022	1.00 22.50 1.00 22.96 1.00 26.82 1.00 25.65 1.00 26.07 1.00 28.74 1.00 29.30 1.00 26.57 1.00 30.31 1.00 24.37	68766668868
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19448 19449 19450 19451 19452 19453 19454 19455 19456 19457	O N CA CB CG2 CG1 CD1 C	GLU M1370 ILE M1371 ILE M1371 ILE M1371 ILE M1371 ILE M1371 ILE M1371 ILE M1371 ILE M1371 VAL M1372	74.768 73.335 74.042 73.136 73.840 72.811 73.925 74.532 75.683 73.621	94.158 92.535 91.474 90.282 89.427 89.410 88.502 92.007 91.813 92.661	59.407 60.006 59.265 58.880 57.853 60.089 60.511 57.940 57.555 57.238	1.00 24.40 1.00 42.55 1.00 41.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 13.87 1.00 41.53 1.00 42.75 1.00 19.01	0766666687
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19458 19459 19460 19461 19462 19463 19464 19465 19466 19467	CA CB CG1 CG2 C O N CA CB CG1	VAL M1372 VAL M1372 VAL M1372 VAL M1372 VAL M1372 VAL M1373 VAL M1373 VAL M1373 VAL M1373	73.908 72.619 72.874 71.584 74.878 75.778 74.697 75.547 75.062 76.175	93.217 93.685 94.034 92.612 94.383 94.471 95.276 96.465 97.377 97.603	55.938 55.264 53.819 55.370 55.986 55.142 56.963 57.100 58.264 59.275	1.00 19.49 1.00 29.25 1.00 28.47 1.00 29.34 1.00 20.74 1.00 20.78 1.00 38.65 1.00 40.85 1.00 30.59 1.00 29.63	6666687666
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19468 19470 19471 19472 19473 19474 19475 19476 19477	CG2 C O N CA CB CC CD NE CZ	VAL M1373 VAL M1373 VAL M1374 ARG M1374 ARG M1374 ARG M1374 ARG M1374 ARG M1374 ARG M1374 ARG M1374	74.583 77.003 77.899 77.234 78.578 78.532 79.839 79.582 80.068 79.927 79.313	98.711 96.086 96.667 95.109 94.638 93.364 92.628 91.149 90.645 89.384 88.497	57.707 57.300 56.690 58.160 58.406 59.232 59.294 59.467 60.747 61.142 60.359	1.00 29.59 1.00 43.04 1.00 43.66 1.00 29.36 1.00 32.53 1.00 41.74 1.00 42.39 1.00 41.99 1.00 40.86 1.00 41.20 1.00 38.94	66876666767
ATOM ATOM	19478 19479	NH1 NH2	ARG M1374 ARG M1374	80.402	89.006	62.318	1.00 42.04	7

ATOM	19480	C	ARG M1374	79.251	94.346	57.069	1.00 33.82	6
ATOM	19481	O	ARG M1374	80.393	94.722	56.854	1.00 35.00	8
ATOM	19482	N	GLN M1375	78.535	93.677	56.171	1.00 26.64	7
ATOM	19483	CA	GLN M1375	79.068	93.325	54.859	1.00 27.87	6
ATOM	19484	CB	GLN M1375	78.008	92.590	54.055	1.00 36.76	6
ATOM	19485	CG	GLN M1375	77.738	91.208	54.584	1.00 37.15	6
ATOM	19486	CD	GLN M1375	78.817	90.238	54.190	1.00 37.52	6
ATOM	19487	OE1	GLN M1375	78.969	89.921	53.012	1.00 37.07	8
ATOM	19488	NE2	GLN M1375	79.583	89.762	55.169	1.00 36.68	7
MOTA	19489	C	GLN M1375	79.577	94.517	54.074	1.00 29.06	6
MOTA	19490	O	GLN M1375	80.518	94.383	53.289	1.00 28.43	8
MOTA	19491	N	MET M1376	78.950	95.673	54.274	1.00 42.74	7
ATOM ATOM ATOM	19492 19493 19494	CA CB CG	MET M1376 MET M1376 MET M1376	79.372 78.395 77.084	96.893 98.030 97.873	53.597 53.865 53.164	1.00 46.22 1.00 31.58 1.00 31.71	6 6
MOTA	19495	SD	MET M1376	76.110	99.368	53.262	1.00 31.80	16
MOTA	19496	CE	MET M1376	75.120	99.022	54.736	1.00 29.71	6
MOTA	19497	C	MET M1376	80.743	97.287	54.126	1.00 50.18	6
ATOM	19498	O	MET M1376	81.651	97.633	53.365	1.00 51.17	8
ATOM	19499	N	LEU M1377	80.884	97.239	55.445	1.00 99.63	7
ATOM	19500	CA	LEU M1377	82.144	97.576	56.085	1.00102.98	6
MOTA MOTA MOTA	19501 19502 19503	CB CG CD1	LEU M1377 LEU M1377 LEU M1377	81.899 81.791 82.421	98.276 99.809 100.388	57.431 57.455 56.199	1.00 39.74 1.00 39.67 1.00 37.44	6 6
MOTA	19504	CD2	LEU M1377	80.353	100.241	57.554	1.00 40.91	6
MOTA	19505	C	LEU M1377	82.995	96.333	56.298	1.00105.69	6
MOTA	19506	O	LEU M1377	83.405	96.039	57.420	1.00106.74	8
ATOM ATOM ATOM	19507 19508 19509	N CA CB	LYS M1378 LYS M1378 LYS M1378	83.250 84.069 83.295	95.593 94.404 93.142	55.225 55.354 54.942	1.00 65.31 1.00 67.42 1.00 75.64	7 6 6 6
ATOM ATOM ATOM	19510 19511 19512 19513	CG CD CE	LYS M1378 LYS M1378 LYS M1378 LYS M1378	83.409 82.999 83.163 82.821	92.763 91.306 90.924 89.504	53.477 53.220 51.737 51.415	1.00 76.91 1.00 78.29 1.00 79.71 1.00 81.23	6 6 7
ATOM ATOM ATOM ATOM	19514 19515 19516	NZ C O N	LYS M1378 LYS M1378 LYS M1378 TYR M1379	85.333 86.295 85.347	94.555 93.807 95.529	54.516 54.707 53.606	1.00 69.00 1.00 69.64 1.00 66.96	6 8 7
ATOM	19517	CA	TYR M1379 TYR M1379 TYR M1379	86.529	95.744	52.769	1.00 69.04	6
ATOM	19518	CB		86.125	96.110	51.347	1.00 85.05	6
ATOM	19519	CG		85.092	95.192	50.770	1.00 85.78	6
ATOM	19520	CD1	TYR M1379	83.781	95.228	51.230	1.00 86.68	6
ATOM	19521	CE1		82.811	94.396	50.700	1.00 87.58	6
ATOM	19522	CD2		85.415	94.291	49.762	1.00 86.03	6
ATOM	19523	CE2	TYR M1379	84.452	93.450	49.225	1.00 86.77	6
ATOM	19524	CZ	TYR M1379	83.150	93.509	49.700	1.00 87.40	6
ATOM	19525	OH	TYR M1379	82.173	92.681	49.197	1.00 87.15	8
ATOM	19526	C	TYR M1379	87.443	96.833	53.326	1.00 69.30	6
ATOM	19527	O	TYR M1379	86.968	97.813	53.901	1.00 68.85	8
ATOM	19528	N	VAL M1380	88.751	96.653	53.152	1.00 51.19	7
ATOM ATOM ATOM	19529 19530 19531	CA CB CG1		89.732 90.569 89.682 91.339	97.614 97.026 96.606 95.849	53.635 54.767 55.907 54.259	1.00 51.71 1.00 52.39 1.00 52.94 1.00 52.18	6 6 6
ATOM ATOM ATOM ATOM	19532 19533 19534 19535	CG2 C O N	VAL M1380 VAL M1380 VAL M1380 GLU M1381	90.676 90.686 91.464	98.008 97.374 99.059	52.509 51.458 52.745	1.00 52.86 1.00 52.43 1.00 89.61	6 8 7
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ATOM	19536	CA		M1381		453	99.5		51.78		1.00 90.8	
MOTA	19537	CB		M1381			100.9		51.27		1.00 82.6	
MOTA	19538	CG		M1381		907	101.5		50.18		1.00 83.0	
MOTA	19539	CD		M1381		647	103.0		49.93		1.00 84.5	
ATOM	19540	OE1		M1381		.955	103.8		50.83		1.00 84.8	
MOTA	19541	OE2		M1381			103.3		48.85		1.00 85.2 1.00 91.4	
ATOM	19542	C		M1381		792	99.6		52.52 53.39		1.00 91.4	
ATOM	19543	0		M1381		.973 .719	100.5		52.17		1.00 91.0	
MOTA	19544	N		M1382 M1382		.036	98.		52.80		1.00 98.7	
ATOM	19545	CA		M1382		.030	97.		52.03		1.00 69.3	
ATOM	19546	CB CG1		M1382		.937	97 . :		52.92		1.00 69.0	
MOTA	19547 19548	CG2		M1382		.122	96.		51.56		1.00 69.0	
ATOM ATOM	19549	CGZ		M1382			100.		52.92		1.00100.2	
ATOM	19550	0		M1382		.307	101.		52.46		1.00100.7	
ATOM	19551	N		M1383		.942	100.0		53.57		1.00 90.2	
ATOM	19552	CA		M1383					53.79		1.00 91.4	
ATOM	19553	CB		M1383			102.2		54.73		1.00 61.6	
ATOM	19554	OG1		M1383			101.		55.73		1.00 60.1	
MOTA	19555	CG2		M1383		.443	103.		53.94		1.00 59.5	
MOTA	19556	C		M1383		.110	100.		54.46	2	1.00 93.4	
ATOM	19557	Ō		M1383		.045	99.		55.32	7	1.00 93.7	
ATOM	19558	N	ASP	M1384	101	.256	101.	191	54.06	4	1.00125.9	
MOTA	19559	CA	ASP	M1384	102	.555	100.	802	54.61	.8	1.00127.2	
MOTA	19560	СВ	ASP	M1384		.774	101.		55.96		1.00208.8	
MOTA	19561	CG	ASP	M1384		.204	101.	378	56.46		1.00208.8	
ATOM	19562	OD1	ASP	M1384		.690	100.		56.63		1.00208.8	
MOTA	19563	OD2		M1384		.841			56.69		1.00208.8	
MOTA	19564	С		M1384		.593	99.		54.79		1.00126.2	
MOTA	19565	0		M1384		.663	98.		55.90		1.00126.4	
MOTA	19566	N		M1385		.535	98.		53.67		1.00 51.5	
MOTA	19567	CD		M1385		.333	99.		52.30		1.00 58.0	
MOTA	19568	CA		M1385		.557	97.		53.69 52.29		1.00 50.9	
ATOM	19569	CB		M1385		.079	96. 97.		51.46		1.00 57.4	
ATOM	19570	CG		M1385 M1385		.893	96.		54.04		1.00 57.4	
MOTA	19571 19572	C 0		M1385		.950	97.		54.04		1.00 50.5	
MOTA	19572	N		M1386		.814	95.		54.33		1.00117.8	
ATOM ATOM	19574	CA	_	M1386		.977	94.		54.68		1.00119.0	
ATOM	19575	C		M1386		.680	92.		54.27		1.00120.0	
ATOM	19576	0		M1386		.549	92.		54.43		1.00120.8	
ATOM	19577	Ň		M1387		.678	92.		53.72		1.00120.6	
ATOM	19578	CA		M1387		.503	90.		53.27	71	1.00121.7	
ATOM	19579	СВ	ASP	M1387	105	.221	89.		54.45	6	1.00208.8	
MOTA	19580	CG		M1387	106	.472	89.	555	55.26	57	1.00208.8	
MOTA	19581	OD1	ASP	M1387		.460		069	54.67		1.00208.8	
ATOM	19582	OD2		M1387		.462		769	56.50		1.00208.8	
MOTA	19583	С		M1387		.346		733	52.27		1.00121.4	
MOTA	19584	0		M1387		.026	89.		51.76		1.00120.7	
MOTA	19585	\mathbf{N}		M1388		.732		877	51.99		1.00131.9	
ATOM	19586	CA		M1388		.603		937	51.08		1.00131.2	
ATOM	19587	CB		M1388		.311		859	51.90		1.00139.6	
ATOM	19588	OG		M1388		.365 .651		785 233	52.82 50.2		1.00139.0	
ATOM	19589 19590	C O		M1388 M1388		.876		311	50.2		1.00130.7	
MOTA	19590	N		M1389		.429		140	48.95		1.00130.3	
MOTA	TADAT	TA	FKO	HIJOS	104	. 443	٠,٠	T = 0	±0.7.		1.00110.0	,

MOTA	19592	CD	PRO	M1389	1	.02.1	L52	91.88	32	48.224	1.00 64.27 6
ATOM	19593	CA		M1389	1	.02.4	144	94.28		48.023	1.00114.75 6
MOTA	19594	CB		м1389		.02.4		93.60		46.658	1.00 64.24 6
MOTA	19595	CG		M1389		.01.6		92.38		46.879	1.00 63.80 6
MOTA	19596	C		M1389		.01.2		95.25		48.129	1.00114.34 6 1.00113.72 8
MOTA	19597	0		M1389		.00.4		95.16 96.17		49.050 47.174	1.00113.72 8 1.00 77.52 7
ATOM	19598	N		M1390		01.1		97.17		47.174	1.00 77.72 6
MOTA	19599 19600	CA CB		M1390 M1390	7	98.		96.47		47.208	1.00165.74 6
MOTA MOTA	19600	CG		M1390		98.		95.14		46.458	1.00167.33 6
ATOM	19601	CD1		M1390		97.		94.58		46.761	1.00166.78 6
ATOM	19603	CD2	_	M1390		98.		95.35		44.965	1.00168.14 6
MOTA	19604	C		M1390	1	100.3		98.30	06	48.120	1.00 77.64 6
ATOM	19605	Ö		M1390	1	01.	166	98.44	47	48.870	1.00 77.42 8
MOTA	19606	N	LEU	M1391		99.3		99.12		48.129	1.00208.87 7
ATOM	19607	CA		M1391		98.		100.24		49.057	1.00208.87 6
MOTA	19608	CB		M1391		99.		101.50		48.527	1.00134.86 6
MOTA	19609	CG		M1391		99.		102.69		49.499	1.00134.55 6 1.00134.50 6
ATOM	19610	CD1		M1391				102.37		50.744 48.826	1.00134.41 6
ATOM	19611	CD2		M1391 M1391		97.		100.48		49.197	1.00208.87 6
MOTA	19612 19613	C 0		M1391		97.		100.93		50.242	1.00208.87 8
ATOM ATOM	19613	N		M1391		96.		100.2		48.116	1.00103.79 7
ATOM	19615	CA		M1392				100.3		48.068	1.00102.15 6
ATOM	19616	CB		M1392		94.		101.5		47.195	1.00150.32 6
ATOM	19617	CG		M1392		94.		102.93		47.888	1.00150.57 6
ATOM	19618	CD		M1392		96.		103.4		48.148	1.00151.09 6
MOTA	19619	OE1		M1392		97.		103.6		47.178	1.00151.80 8
MOTA	19620	OE2		M1392				103.7		49.325	1.00151.25 8 1.00100.68 6
ATOM	19621	C		M1392		94. 94.		99.05 99.05		47.451 46.331	1.00100.08
MOTA	19622 19623	N O		M1392 M1393		95.		97.9		48.198	1.00 71.24 7
MOTA MOTA	19623	CA		M1393		94.		96.6		47.732	1.00 69.11 6
ATOM	19625	C		M1393		93.		96.2		47.810	1.00 68.17 6
ATOM	19626	Ö		M1393		92.		95.2	92	47.196	1.00 67.32 8
ATOM	19627	N	GLN	M1394		92.	363	97.0		48.547	1.00 37.61 7
MOTA	19628	CA		M1394		90.		96.7		48.678	1.00 37.13 6
MOTA	19629	CB		M1394		90.		97.2		47.407	1.00130.66 6
ATOM	19630	CG		M1394		88.		97.2		47.547	1.00132.41 6 1.00132.57 6
MOTA	19631	CD		M1394		88. 88.		98.2 98.0		46.532 45.323	1.00132.50 8
ATOM	19632			M1394 M1394		87.		99.2		47.028	1.00132.53 7
ATOM ATOM	19633 19634	NE2 C		M1394			731	95.2		48.945	1.00 36.70 6
ATOM	19635	0		M1394			282	94.5		48.071	1.00 35.41 8
ATOM	19636	N		M1395			058	94.8		50.177	1.00 42.77 7
MOTA	19637	CA		M1395		90.	960	93.4	73	50.641	1.00 43.23 6
MOTA	19638	CB	VAL	M1395			363	92.9		51.094	1.00 71.52 6
MOTA	19639	CG1		M1395			275	91.5		51.576	1.00 71.52 6
MOTA	19640	CG2		M1395			344	93.0		49.942	1.00 71.88 6
MOTA	19641	C		M1395			977	93.3		51.806	1.00 43.82 6 1.00 43.49 8
ATOM	19642	0		M1395			641 537	94.3 92.1		52.466 52.049	1.00 43.49 8
ATOM	19643 19644	N CA		M1396 M1396			586	91.8		53.111	1.00101.35 6
MOTA MOTA	19644	CB		M1396			011	90.4		52.887	1.00 66.86 6
ATOM	19646	C		M1396			165	91.9		54.523	1.00102.80 6
MOTA	19647	Õ		M1396			981	91.0		54.945	1.00103.86 8
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ATOM	19648	N		M1397	88.709	92.929	55.248	1.00 70.78	7
MOTA	19649	CA		M1397	89.148	93.201	56.614	1.00 71.98 1.00 95.20	6 6
ATOM	19650	CB		M1397	88.065 88.376	93.969 94.163	57.363 58.830	1.00 93.20	6
ATOM	19651 19652	CG CD		M1397 M1397	87.126	94.103	59.656	1.00 93.94	6
MOTA MOTA	19653	OE1		M1397	86.408	95.355	59.418	1.00 94.32	8
ATOM	19654	OE2		M1397	86.855	93.514	60.539	1.00 93.97	8
ATOM	19655	C		M1397	89.557	91.993	57.456	1.00 73.50	6
ATOM	19656	Ö		M1397	90.508	92.079	58.226	1.00 73.72	8
MOTA	19657	N		M1398	88.839	90.881	57.341	1.00143.02	7
ATOM	19658	CA	LYS	M1398	89.195	89.705	58.129	1.00145.05	6
MOTA	19659	CB		M1398	88.014	88.737	58.253	1.00121.91	6
MOTA	19660	CG		M1398	88.354	87.439	58.996	1.00122.19	6
MOTA	19661	CD		M1398	89.018	87.707	60.352	1.00122.44	6
MOTA	19662	CE		M1398	89.523	86.420	61.007 62.240	1.00123.06 1.00123.08	6 7
MOTA	19663	NZ		M1398	90.331 90.379	86.670 88.992	57.507	1.00123.08	6
MOTA	19664 19665	C O		M1398 M1398	91.278	88.532	58.210	1.00146.57	8
ATOM ATOM	19666	N		M1399	90.378	88.893	56.184	1.00 76.62	7
ATOM	19667	CA		M1399	91.485	88.251	55.496	1.00 77.83	6
ATOM	19668	CB		M1399	91.315	88.395	53.980	1.00198.31	6
ATOM	19669	CG		м1399	92.033	87.349	53.176	1.00199.94	6
MOTA	19670	CD2	TRP	M1399	93.166	87.545	52.317	1.00200.76	6
MOTA	19671	CE2		M1399	93.497	86.285	51.768	1.00201.10	6
MOTA	19672	CE3		M1399	93.935	88.661	51.960	1.00200.98	6
MOTA	19673	CD1		M1399	91.733	86.018	53.113 52.270	1.00200.52 1.00201.06	6 7
ATOM	19674	NE1		M1399 M1399	92.607 94.564	85.372 86.111	50.877	1.00201.00	6
MOTA	19675 19676	CZ2 CZ3	TRP TRP	M1399	94.997	88.487	51.072	1.00201.30	6
ATOM ATOM	19677	CH2		M1399	95.300	87.221	50.543	1.00201.01	6
ATOM	19678	C		M1399	92.725	89.018	55.964	1.00 78.09	6
ATOM	19679	Ö		M1399	93.818	88.464	56.101	1.00 77.43	8
ATOM	19680	N	ASP	M1400	92.517	90.304	56.234	1.00112.62	7
MOTA	19681	CA		M1400	93.570	91.207	56.680	1.00113.56	6
MOTA	19682	CB		M1400	93.139	92.648	56.440	1.00 96.52	6
MOTA	19683	CG		M1400	94.258	93.505	55.926	1.00 96.52	6 8
MOTA	19684	OD1		M1400	94.606	93.383	54.732 56.713	1.00 95.82 1.00 97.49	8
MOTA	19685 19686	OD2 C	ASP	M1400 M1400	94.798 93.886	94.302 91.026	58.159	1.00 37.43	6
MOTA MOTA	19687	0		M1400	94.914	91.496	58.640	1.00114.97	8
ATOM	19688	N		M1401	92.990	90.362	58.880	1.00156.39	7
ATOM	19689	CA		M1401	93.189	90.126	60.305	1.00157.96	6
MOTA	19690	CB	VAL	M1401	91.852	89.849	61.022	1.00147.16	6
ATOM	19691	CG1		M1401	92.102	89.498	62.489	1.00148.29	6
MOTA	19692	CG2		M1401	90.950	91.071	60.916	1.00146.45	6
MOTA	19693	C		M1401	94.118	88.937	60.503	1.00159.07	6 8
ATOM	19694	0		M1401	94.638	88.715	61.597 59.435	1.00159.94 1.00119.47	7
MOTA	19695	N		M1402 M1402	94.320 95.207	88.173 87.017	59.435	1.00119.47	6
ATOM ATOM	19696 19697	CA CB		M1402 M1402	94.934	86.094	58.291	1.00206.10	6
ATOM	19698	CG		M1402	93.580	85.408	58.329	1.00206.18	6
ATOM	19699	CD		M1402	93.367	84.626	59.609	1.00207.21	6
ATOM	19700	OE1		M1402	93.128	85.258	60.660	1.00206.93	8
ATOM	19701	OE2		M1402	93.450	83.380	59.566	1.00208.48	8
MOTA	19702	C		M1402	96.663	87.488	59.452	1.00119.67	6
ATOM	19703	0	GLU	M1402	97.503	87.010	60.219	1.00119.15	8

MOTA MOTA	19704 19705	N CA	ALA	M1403 M1403	96.948 98.287	88.992	58.558 58.411	1.00136.01 1.00136.28	7 6
MOTA	19706	CB		M1403	98.255		57.447	1.00 77.89 1.00136.20	6 6
ATOM	19707	C		M1403	98.812 99.704		59.764 60.331	1.00136.20	8
MOTA	19708	0		M1403	99.704		60.278	1.00130.33	7
ATOM	19709	N		M1404 M1404	98.653		61.573	1.00 94.44	6
ATOM	19710 19711	CA CB		M1404 M1404	97.762		61.954	1.00189.17	6
ATOM ATOM	19711	CG		M1404	98.138		61.344	1.00189.28	6
ATOM	19713	CD1		M1404	97.128		61.764	1.00189.56	6
ATOM	19714	CD2		M1404	99.534		61.808	1.00189.25	6
ATOM	19715	C		M1404	98.639		62.707	1.00 94.69	6
MOTA	19716	0	LEU	M1404	98.786		63.869	1.00 94.40	8
MOTA	19717	N		M1405	98.441		62.368	1.00208.26	7
MOTA	19718	CA		M1405	98.434		63.355	1.00208.87	6
MOTA	19719	CB		M1405	97.093		63.348	1.00182.53	6
ATOM	19720	CG		M1405	97.168		64.044 65.221	1.00183.31	6 8
MOTA	19721	OD1		M1405	97.519 96.845		63.314	1.00182.88	7
ATOM	19722	ND2		M1405 M1405	99.543		63.016	1.00208.87	6
ATOM	19723 19724	C 0		M1405 M1405	100.505		63.769	1.00208.87	8
MOTA MOTA	19725	N		M1405	99.396		61.870	1.00 92.51	7
ATOM	19726	CA		M1406	100.372		61.407	1.00 92.09	6
MOTA	19727	CB		M1406	99.851		60.133	1.00123.09	6
ATOM	19728	CG	GLU	M1406	100.374		59.874	1.00122.99	6
MOTA	19729	CD		M1406	99.567		58.807	1.00123.10	6
MOTA	19730	OE1		M1406	99.438		57.688	1.00122.69	8
MOTA	19731	OE2		M1406	99.057		59.086	1.00123.08	8
ATOM	19732	C		M1406	101.678		61.143	1.00 91.83 1.00 91.75	6 8
ATOM	19733	0		M1406	102.747 101.574		61.082 61.001	1.00 91.75	7
MOTA	19734	N		M1407 M1407	101.574		60.759	1.00161.66	6
MOTA MOTA	19735 19736	CA CB		M1407	102.752		59.600	1.00168.21	6
ATOM	19737	CG		M1407	102.290		58.242	1.00169.31	6
MOTA	19738	CD		M1407	103.610		57.713	1.00170.45	6
MOTA	19739	ΝE		M1407	103.507		56.308	1.00172.31	7
MOTA	19740	CZ		M1407	104.522		55.584	1.00172.51	6
MOTA	19741	NH1		M1407	105.723		56.131	1.00172.38	7
MOTA	19742	NH2		M1407	104.339		54.310	1.00172.91	7
ATOM	19743	C		M1407	103.085		62.007	1.00161.67 1.00161.67	6 8
ATOM	19744	0		M1407	104.172 102.163		62.094 62.966	1.00101.07	7
MOTA	19745	N		M1408 M1408	102.10		64.204	1.00105.75	6
ATOM ATOM	19746 19747	CA CB		M1408	101.14		65.063	1.00208.87	6
ATOM	19748	CG		M1408	101.263		66.338	1.00208.87	6
MOTA	19749	CD1		M1408	101.45		65.973	1.00208.87	6
ATOM	19750	CD2		M1408	100.013		67.183	1.00208.87	6
ATOM	19751	C		M1408	103.503		64.991	1.00104.97	6
ATOM	19752	0		M1408	104.01		65.978	1.00104.90	8
ATOM	19753	N		M1409	103.85		64.555	1.00118.87	7
ATOM	19754	CA		M1409	104.893			1.00118.29 1.00157.06	6 6
MOTA	19755	CB		M1409	104.83 105.71		64.733 65.616	1.00157.66	6
MOTA MOTA	19756 19757	CG2 CG1		M1409 M1409	103.71			1.00157.31	6
ATOM	19758	CD1		M1409	102.71			1.00157.10	6
ATOM	19759	C		M1409	106.23			1.00118.31	6
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ATOM	19760	0	ILE	M1409	107.199		86.823	64.520	1.00118.52	8
MOTA	19761	N		M1410	106.252		88.857	64.788	1.00110.75	7
MOTA	19762	CA		M1410	107.421		89.648	64.438	1.00110.99	6
ATOM	19763	СВ		M1410	107.612		89.653	62.925	1.00 75.19	6
MOTA	19764	C		M1410	107.177		91.071	64.942	1.00111.09	6 8
ATOM	19765	0		M1410	107.233		92.003	64.118 66.154	1.00111.24 1.00 76.43	8
ATOM	19766	OXT CB		M1410 N1414	106.923 106.256		91.240 92.922	60.034	1.00 76.43	6
ATOM ATOM	19767 19768	CG1		N1414 N1414	106.236		93.593	58.675	1.00103.76	6
ATOM	19769	CG2		N1414	107.662		92.370	60.235	1.00104.28	6
ATOM	19770	C		N1414	104.501		94.461	60.929	1.00121.75	6
ATOM	19771	Ö		N1414	103.622		93.742	60.445	1.00121.37	8
ATOM	19772	N		N1414	106.020		93.308	62.501	1.00122.57	7
ATOM	19773	CA	VAL	N1414	105.916	•	93.935	61.153	1.00122.38	6
ATOM	19774	N		N1415	104.266		95.733	61.278	1.00166.28	7
MOTA	19775	CD		N1415	105.228		96.695	61.849	1.00 86.61	6
MOTA	19776	CA		N1415	102.948		96.349	61.113	1.00165.75	6
MOTA	19777	CB		N1415	103.236		97.831	61.341	1.00 86.35	6
ATOM	19778	CG		N1415	104.316		97.786	62.381	1.00 86.42 1.00165.13	6 6
MOTA	19779	C		N1415 N1415	102.290 102.760		96.081 96.546	59.760 58.721	1.00165.13	8
ATOM ATOM	19780 19781	O N		N1415 N1416	102.700		95.313	59.792	1.00103.22	7
MOTA	19782	CA		N1416	100.429		94.985	58.598	1.00117.25	6
ATOM	19783	CB		N1416	100.067		93.493	58.552	1.00 85.54	6
ATOM	19784	CG1		N1416	99.290		93.187	57.282	1.00 85.07	6
MOTA	19785	CG2	VAL	N1416	101.333	}	92.652	58.647	1.00 85.05	6
MOTA	19786	С		N1416	99.135		95.774	58.709	1.00116.02	6
MOTA	19787	0		N1416	98.072		95.194	58.912	1.00115.60	8
MOTA	19788	N		N1417	99.228		97.094	58.581	1.00100.17	7
MOTA	19789	CA		N1417	98.059		97.952	58.713	1.00 98.01 1.00 53.64	6 6
MOTA	19790	CB		N1417 N1417	98.472 97.245		99.329 98.091	59.214 57.443	1.00 96.92	6
ATOM ATOM	19791 19792	C O		N1417 N1417	97.740		97.847	56.342	1.00 90.32	8
ATOM	19793	N		N1417	95.990		98.498	57.625	1.00 76.29	7
ATOM	19794	CA		N1418	95.035		98.690	56.541	1.00 73.93	6
ATOM	19795	CB		N1418	94.174		97.438	56.414	1.00 79.43	6
ATOM	19796	CG	TRP	N1418	93.206	5	97.291	57.549	1.00 80.05	6
MOTA	19797	CD2		N1418	93.369		96.486	58.715	1.00 80.30	6
ATOM	19798	CE2		N1418	92.245		96.713	59.541	1.00 80.89	6
MOTA	19799	CE3		N1418	94.354		95.593	59.147	1.00 80.13	6
ATOM	19800	CD1		N1418	92.022		97.955 97.615	57.708 58.900	1.00 80.75 1.00 81.20	6 7
MOTA	19801	NE1 CZ2		N1418 N1418	91.439 92.081		96.079	60.777	1.00 81.20	6
ATOM ATOM	19802 19803	CZ2		N1418	94.192		94.960	60.378	1.00 80.13	6
ATOM	19803	CH2		N1418	93.063		95.208	61.177	1.00 80.82	6
MOTA	19805	C		N1418	94.158		99.872	56.948	1.00 72.31	6
MOTA	19806	Ō		N1418	94.292		100.371	58.060	1.00 71.80	8
ATOM	19807	N		N1419	93.259) 1	100.305	56.063	1.00 83.62	7
MOTA	19808	CA		N1419	92.335		L01.407	56.362	1.00 82.32	6
ATOM	19809	CB		N1419			102.625	55.498	1.00106.59	6
ATOM	19810	CG		N1419	93.997		103.267	55.874	1.00110.34	6
ATOM	19811	CD		N1419	94.270		L04.562 L05.254	55.113 55.637	1.00112.26 1.00113.28	6 6
${f ATOM}$	19812 19813	CE NZ		N1419 N1419	95.536		106.457	54.845	1.00113.28	7
ATOM	19813	C		N1419 N1419			100.457	56.121	1.00 80.11	6
ATOM	19815	0		N1419			100.112	55.279	1.00 80.55	8
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ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19816 19817 19818 19819 19820 19821 19822 19823 19824 19825 19826	N CD CA CB CG C O N CA CB	PRO M PRO M PRO M PRO M PRO M PRO M LEU M LEU M LEU M LEU M	N1420 N1420 N1420 N1420 N1420 N1420 N1421 N1421 N1421	90.094 88.496 87.878 88.671 87.755 87.531 87.369 86.670 87.303 86.696	101.509 102.216 101.132 101.431 102.592 101.838 103.043 101.058 101.567 100.962 101.213	56.882 58.162 56.703 58.067 58.537 55.562 55.594 54.560 53.389 52.131	1.00 41.53 1.00101.26 1.00 38.15 1.00 98.29 1.00 99.71 1.00 35.21 1.00 34.19 1.00 53.01 1.00 50.78 1.00 51.46 1.00 51.59 1.00 52.13	7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
ATOM ATOM	19827 19828	CD1 CD2	LEU 1			102.688	50.544 49.705	1.00 52.13	6
ATOM	19829	C		N1421	85.173	101.238	53.480	1.00 49.30	6
ATOM	19830	0	LEU I	N1421		100.282	54.155	1.00 49.32	8
MOTA	19831	N		N1422		102.044	52.812	1.00 79.90	7
MOTA	19832	CA		N1422		101.871	52.828	1.00 78.18	6 6
MOTA	19833	CB		N1422		103.183	53.222 53.854	1.00 42.96 1.00 40.12	6
MOTA	19834	CG		N1422	80.812	103.115	55.335	1.00 40.12	6
MOTA	19835 19836	CD1 CD2	LEU 1		80.078	104.427	53.658	1.00 33.75	6
MOTA MOTA	19837	CDZ		N1422 N1422	82.383	101.454	51.456	1.00 78.42	6
ATOM	19838	0		N1422	82.441	102.230	50.501	1.00 78.07	8
MOTA	19839	N		N1423	81.876	100.230	51.367	1.00 59.38	7
ATOM	19840	CA	MET I	N1423	81.366	99.709	50.108	1.00 58.29	6
MOTA	19841	CB		N1423	81.770	98.244	49.942	1.00 30.39	6
MOTA	19842	CG		N1423	83.253	97.998	49.946	1.00 27.16	6
MOTA	19843	SD		N1423	84.006	98.405	48.393	1.00 25.19 1.00 23.94	16 6
ATOM	19844	CE		N1423	84.526 79.852	96.839 99.803	47.818 50.039	1.00 23.94	6
MOTA	19845 19846	C O		N1423 N1423	79.163	99.562	51.031	1.00 59.56	8
${ t ATOM}$	19847	N		N1423 N1424	79.341	100.170	48.868	1.00 56.07	7
ATOM	19848	CA		N1424	77.904	100.230	48.683	1.00 56.69	6
ATOM	19849	C		N1424	77.515	98.773	48.740	1.00 57.24	6
ATOM	19850	0	GLY I	N1424	78.365	97.920	48.510	1.00 57.38	8
MOTA	19851	N		N1425	76.268	98.455	49.047	1.00 58.10	7
MOTA	19852	CA		N1425	75.913	97.050	49.123	1.00 59.55 1.00 27.26	6 6
ATOM	19853	CB		N1425	74.447 73.583	96.878 96.471	49.563 48.399	1.00 27.20	6
ATOM	19854 19855	CG1	VAL :	N1425	74.368	95.867	50.678	1.00 26.37	6
ATOM ATOM	19856	CGZ		N1425 N1425	76.168	96.385	47.770	1.00 62.07	6
MOTA	19857	Ö		N1425	76.577	95.228	47.699	1.00 63.00	8
MOTA	19858	N		N1426	75.954	97.138	46.695	1.00 27.25	7
MOTA	19859	CA		N1426	76.164	96.630	45.349	1.00 28.60	6
MOTA	19860	CB		N1426	75.627	97.621	44.309	1.00 48.38	6
ATOM	19861	OG1		N1426	74.200	97.684	44.406	1.00 47.95 1.00 49.21	8 6
ATOM	19862	CG2		N1426	76.014 77.642	97.193 96.367	42.907 45.077	1.00 49.21	6
ATOM	19863 19864	C O		N1426 N1426	78.036	95.234	44.817	1.00 31.61	8
MOTA ATOM	19865	N		N1427	78.456	97.415	45.145	1.00 97.03	7
ATOM	19866	CA		N1427	79.890	97.287	44.907	1.00100.40	6
ATOM	19867	CB		N1427	80.598	98.631	45.062	1.00125.28	6
ATOM	19868	CG		N1427	80.339	99.617	43.948	1.00127.97	6
MOTA	19869	CD		N1427	81.144		44.164	1.00129.49	6
MOTA	19870	CE		N1427	80.893		43.063	1.00130.24 1.00131.93	6 7
ATOM	19871	NZ	LYS	N1427	81.740	103.112	43.239	1.00131.93	,

ATOM ATOM ATOM ATOM ATOM ATOM	19872 19873 19874 19875 19876 19877 19878	C O N CA CB OG C	LYS N142 LYS N142 SER N142 SER N142 SER N142 SER N142 SER N142	27 28 28 28 28	80.541 81.758 79.740 80.275 79.495 80.031 80.199	96.306 96.170 95.638 94.674 94.710 93.772 93.287	45.858 45.856 46.681 47.632 48.941 49.861 47.040	1.00102.13 1.00102.94 1.00 55.35 1.00 56.80 1.00102.03 1.00102.63 1.00 57.86	6 8 7 6 8 6
MOTA	19879	0	SER N142	28	81.183	92.757	46.548	1.00 58.67	8
MOTA	19880 19881	N CA	ALA N14:		79.018 78.816	92.701 91.373	47.083 46.532	1.00 69.75 1.00 72.29	7 6
ATOM ATOM	19882	CB	ALA N14		77.338	91.048	46.523	1.00161.19	6
ATOM	19883	C	ALA N14		79.371	91.283	45.114	1.00 73.78	6
MOTA	19884	0	ALA N142		79.478	90.198	44.544	1.00 74.63	8
MOTA	19885	N	LEU N14		79.715	92.428	44.541	1.00 93.94	7
ATOM	19886	CA	LEU N14		80.247 79.630	92.463 93.633	43.190 42.423	1.00 94.88 1.00 76.85	6 6
ATOM ATOM	19887 19888	CB CG	LEU N14:		80.235	94.093	41.093	1.00 78.01	6
ATOM	19889	CD1	LEU N14		80.461	92.928	40.143	1.00 77.71	6
MOTA	19890	CD2	LEU N14	30	79.289	95.117	40.481	1.00 78.72	6
MOTA	19891	C	LEU N14		81.761	92.581	43.182	1.00 95.68	6
MOTA	19892	0	LEU N14		82.409	92.238	42.199	1.00 96.02 1.00119.83	8 7
ATOM	19893 19894	N CA	SER N14		82.332 83.771	93.050 93.214	44.280 44.336	1.00119.83	6
MOTA MOTA	19895	CB	SER N14		84.111	94.698	44.512	1.00121.20	6
MOTA	19896	OG	SER N14		85.506	94.902	44.669	1.00193.66	8
MOTA	19897	C	SER N14	31	84.430	92.412	45.439	1.00120.88	6
MOTA	19898	0	SER N14		84.908	92.999	46.408	1.00122.18	8
ATOM	19899	N	THR N14		84.468	91.084	45.311	1.00 75.41	7 6
ATOM	19900 19901	CA CB	THR N14		85.117 84.540	90.293 90.645	46.361 47.748	1.00 74.58 1.00198.41	6
MOTA MOTA	19901	OG1	THR N14		85.351	90.058	48.776	1.00198.05	8
MOTA	19903	CG2	THR N14		83.121	90.117	47.875	1.00199.11	6
MOTA	19904	С	THR N14		85.172	88.766	46.326	1.00 72.80	6
MOTA	19905	0	THR N14		84.315	88.093	45.749	1.00 71.38	8 7
MOTA	19906	N	LYS N14 LYS N14		86.211 86.534	88.273 86.868	47.003 47.242	1.00 65.86 1.00 64.07	6
MOTA MOTA	19907 19908	CA CB	LYS N14 LYS N14		85.510	86.287	48.236	1.00208.87	6
ATOM	19909	CG	LYS N14		84.057	86.430	47.797	1.00208.87	6
MOTA	19910	CD	LYS N14		83.064	86.186	48.918	1.00208.87	6
MOTA	19911	CE	LYS N14		81.651	86.472	48.428	1.00208.87	6
ATOM	19912	NZ	LYS N14		80.626 86.759	86.302	49.491 46.116	1.00208.87 1.00 61.69	7 6
${ m ATOM}$	19913 19914	C O	LYS N14 LYS N14		86.759	85.861 85.777	45.551	1.00 61.69	8
ATOM	19914	N	SER N14		85.727	85.068	45.833	1.00 68.84	7
ATOM	19916	CA	SER N14		85.784	84.027	44.818	1.00 64.91	6
ATOM	19917	CB	SER N14		84.826	82.901	45.170	1.00 54.55	6
MOTA	19918	OG	SER N14		84.692	82.041	44.056	1.00 56.40	8
MOTA	19919	C	SER N14		85.501 84.435	84.467 85.003	43.394 43.091	1.00 60.94 1.00 59.69	6 8
ATOM ATOM	19920 19921	O N	SER N14 TRP N14		86.472	84.200	42.528	1.00 69.82	7
ATOM	19921	CA	TRP N14		86.400	84.531	41.111	1.00 65.35	6
MOTA	19923	CB	TRP N14		87.620	83.914	40.392	1.00 42.09	6
MOTA	19924	CG	TRP N14		87.366	82.582	39.702	1.00 36.85	6
ATOM	19925	CD2	TRP N14		87.664	81.275	40.205	1.00 34.58	6
MOTA	19926	CE2 CE3	TRP N14		87.179 88.291	80.341 80.800	39.261 41.359	1.00 33.86 1.00 33.72	6 6
ATOM	19927	CES	175 1114	J D	00.431	30.300	41.000	1.00 33.72	0

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19929 19930 19930 19933 19933 19933 19933 19933 19934 19934 19994 19994 19994 19995 19995 19995 19995 19996 19996 19996 19996 19996 19997	NE1 CZ2 CZ3 CH2 C O N CA CB CGCD1 CD2 C O N CA CB CC CC CD1 CC	TRP TRP U I I I I I I I I I I I I I I I I I I	11435 11435 11435 11435 11435 11435 11435 11435 11435 11435 11435 11436 11436 11436 11436 11436 11436 11436 11438 11438 11438 11438 11438 11438 11438 11438 11439 11439 11440 11441 11441 11441 111441 111441 111441	86 87 87 88 87 88 81 81 81 81 81 81 81 81 81 81 81 81	.731 .6298 .4116 .1584 .416 .1584 .1596 .1	82.391 81.050 78.963 79.425 78.527 83.980 84.614 82.789 82.028 80.821 79.556 79.106 78.461 82.785 84.094 84.336 85.531 86.121 87.483 88.362 87.363 88.371 86.121 87.483 88.371 88.363 88.371 88.371 88.387 88	38.39.4 40.5 40.5 41.5 40.6 41.6 40.6 41.	23273626856777655138161160763767496151094465710794	1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00		67666687666668766888766687668876688766887668686666688
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	19975 19976 19977 19978 19979 19980	O N CA CB CG CD OE1	PHE GLN GLN GLN GLN GLN GLN	N1441 N1442 N1442 N1442 N1442 N1442 N1442	79 78 78 77 76 75	9.110 3.219 3.336 7.372 7.268 5.480 5.370	88.592 90.644 91.184 92.371 92.989 92.137 91.689	34. 35. 34. 33. 32. 31.	947 357 000 846 449 463 754	1.00 1.00 1.00 1.00 1.00 1.00	21.70 67.06 69.94 109.63 113.01 115.85 116.49	8 7 6 6 6 6 8
ATOM ATOM	19982 19983	NE2 C	GLN :	N1442 N1442		7.049 9.775	91.923 91.638		280 743		117.78 71.00	7 6

PΑ	MOT MOT MOT	19984 19985 19986	O N CA	ASN	N1442 N1443 N1443	80.044 80.690 82.107	92.832 90.674 90.941	33.597 33.683 33.468	1.00 71.29 1.00 72.82 1.00 72.00	8 7 6
	MOʻ	19987	CB		N1443	82.568	92.077	34.385	1.00106.27	6
	MOT	19988 19989	CG		N1443 N1443	82.405 81.469	91.741 91.040	35.862 36.254	1.00108.12 1.00107.31	6 8
	MOT MOT	19989	OD1 ND2		N1443 N1443	83.312	92.254	36.234	1.00107.31	7
	MOT	19991	C		N1443	82.875	89.668	33.801	1.00 71.20	6
	MOT	19992	Ö		N1443	83.833	89.690	34.570	1.00 71.75	8
	MOT	19993	N	THR	N1444	82.448	88.554	33.219	1.00 62.95	7
	MOT	19994	CA		N1444	83.089	87.267	33.472	1.00 62.82	6
	MOT	19995	CB		N1444	82.246	86.127	32.894	1.00 61.77 1.00 62.25	6 8
	MO'l MO'l	19996 19997	OG1 CG2		N1444 N1444	80.933 82.889	86.174 84.785	33.472 33.204	1.00 62.25	6
	MOJ	19998	C		N1444 N1444	84.510	87.176	32.912	1.00 63.05	6
	MOT	19999	Ö		N1444	85.425	86.731	33.607	1.00 62.69	8
	MOT	20000	N		N1445	84.687	87.589	31.655	1.00 31.70	7
	MOT	20001	CA		N1445	85.999	87.571	31.012	1.00 30.06	6
	MOT	20002	CB		N1445	86.068 85.025	88.526 88.222	29.809 28.876	1.00 61.07 1.00 61.05	6 8
	MOT MOT	20003 20004	OG1 CG2		N1445 N1445	87.398	88.391	29.123	1.00 61.05	6
	rom Mo	20004	C		N1445	86.978	88.073	32.039	1.00 29.81	6
	ГОМ	20006	Ö		N1445	87.773	87.322	32.567	1.00 28.84	8
PΑ	MOT	20007	N	HIS	N1446	86.881	89.359	32.336	1.00 53.13	7
	MOT	20008	CA		N1446	87.756	89.997	33.304	1.00 54.87	6
	MOT	20009 20010	CB		N1446 N1446	87.204 88.143	91.375 92.198	33.678 34.501	1.00 67.65 1.00 69.25	6 6
	MO1 MO1	20010	CG CD2		N1446 N1446	89.170	91.841	35.311	1.00 69.60	6
	ГОМ	20012			N1446	88.062	93.572	34.567	1.00 69.66	7
	ГОМ	20013	CE1	HIS	N1446	88.997	94.027	35.383	1.00 70.54	6
	MOT	20014			N1446	89.683	92.997	35.848	1.00 70.59	7
	MOT	20015	C		N1446	87.937	89.139	34.550 34.785	1.00 55.28 1.00 55.67	6 8
	POM POM	20016 20017	N O		N1446 N1447	89.032 86.880	88.628 88.978	35.343	1.00 33.87	7
	ГОМ	20017	CA		N1447	86.973	88.166	36.554	1.00 28.47	6
	ГОМ	20019	CB		N1447	85.596	87.736	37.066	1.00 68.41	6
ΑΊ	ГОМ	20020	CG1		N1447	85.758	86.848	38.295	1.00 68.91	6
	ГОМ	20021	CG2		N1447	84.760	88.950	37.389	1.00 70.01	6
	MOT	20022 20023	C 0		N1447 N1447	87.736 88.776	86.894 86.616	36.251 36.847	1.00 28.79 1.00 28.26	6 8
	POM POM	20023	N		N1447	87.198	86.132	35.303	1.00 23.23	7
	ГОМ	20025	CA		N1448	87.770	84.862	34.883	1.00 83.81	6
	МОЛ	20026	СВ		N1448	86.862	84.220	33.825	1.00 54.44	6
	MOT	20027	CG		N1448	86.245	82.852	34.173	1.00 54.53	6
	MOT	20028	CD1		N1448	85.696	82.867 82.498	35.588 33.167	1.00 54.24 1.00 53.83	6 6
	MOT MOT	20029 20030	CD2 C		N1448 N1448	85.151 89.195	85.013	34.363	1.00 33.83	6
	ГОМ	20030	Ö		N1448	90.049	84.172	34.625	1.00 84.69	8
	ГОМ	20032	N		N1449	89.453	86.090	33.632	1.00 40.52	7
ĽΑ	MOT	20033	CA		N1449	90.787	86.346	33.102	1.00 40.49	6
	ГОМ	20034	CB		N1449	90.837	87.684	32.318	1.00 41.10	6
	MOT	20035 20036	OG1 CG2		N1449 N1449	90.378 92.257	87.478 88.246	30.976 32.293	1.00 39.05 1.00 40.51	8 6
	MOT MOT	20036	CGZ		N1449 N1449	91.760	86.435	34.270	1.00 40.31	6
	rom	20037	0		N1449	92.687	85.638	34.384	1.00 40.81	8
	MOT	20039	N		N1450	91.535	87.422	35.129	1.00 54.30	7

ATOM 20042 CG GLU N1450 91.700 88.641 37.244 1.00175.21 6 ATOM 20042 CG GLU N1450 93.730 88.764 38.634 1.00175.21 6 ATOM 20044 OE1 GLU N1450 93.730 88.732 38.611 1.00182.13 6 ATOM 20045 OE2 GLU N1450 93.730 88.734 38.131 1.00184.88 8 ATOM 20045 OE2 GLU N1450 93.732 88.734 39.132 1.00183.57 8 ATOM 20046 C GLU N1450 94.671 88.734 39.132 1.00183.57 8 ATOM 20047 O GLU N1450 93.732 88.792 36.999 1.00 56.59 8 ATOM 20048 N ALA N1451 91.684 84.581 37.025 1.00 56.59 8 ATOM 20049 CA ALA N1451 91.684 84.581 38.426 1.00 49.67 7 ATOM 20050 CB ALA N1451 90.340 83.899 38.491 1.00 29.23 6 ATOM 20051 C ALA N1451 92.702 83.666 37.785 1.00 50.5 6 ATOM 20052 O ALA N1451 92.702 83.666 37.785 1.00 50.5 6 ATOM 20053 N ALA N1452 93.592 83.161 38.426 1.00 49.67 7 ATOM 20055 CB ALA N1452 93.592 83.161 38.426 1.00 84.25 6 ATOM 20055 C ALA N1452 93.592 83.161 38.426 1.00 84.25 6 ATOM 20055 C ALA N1452 93.231 82.708 34.256 1.00 14.00 84.25 6 ATOM 20055 C ALA N1452 93.231 82.708 34.256 1.00 14.00 84.25 6 ATOM 20056 C ALA N1452 93.231 82.708 34.256 1.00 14.00 84.25 6 ATOM 20056 C ALA N1452 93.231 82.708 34.256 1.00 14.00 84.25 6 ATOM 20056 C ALA N1453 95.697 82.212 36.593 1.00 84.27 8 ATOM 20058 N ILE N1453 95.697 82.212 36.593 1.00 84.27 8 ATOM 20060 CB ILE N1453 95.697 82.212 36.593 1.00 84.27 8 ATOM 20060 CB ILE N1453 95.697 82.212 36.593 1.00 84.27 8 ATOM 20060 CB ILE N1453 95.697 82.212 36.593 1.00 84.27 8 ATOM 20060 CB ILE N1453 95.697 82.212 36.593 1.00 84.00 6 ATOM 20060 CB ILE N1453 96.611 80.778 80.602 1.00 47.40 6 ATOM 20067 CA ALA N1454 96.51 80.83 81.41 1.00 56.14 6 ATOM 20067 CA ALA N1454 96.52 86.332 35.894 1.00 56.02 6 ATOM 20068 CB ALA N1454 96.55 86.332 35.894 1.00 56.02 6 ATOM 20060 CB ALA N1454 96.50 88.34 1.00 56.02 6 ATOM 20060 CB ALA N1454 96.50 88.34 1.00 56.00 6 ATOM 20070 C ALA N1454 96.50 88.34 1.00 56.00 6 ATOM 20070 C ALA N1455 96.676 88.4727 39.800 1.00 37.33 6 ATOM 20070 C ALA N1455 99.80 89.80 1.00 37.33 6 ATOM 20070 C ALA N1455 99.80 89.80 1.00 37.33 6 ATOM 20080 C C ALA N1454 96.50 88.34 1.00 56.00 94.74 6 A	ATOM	20040	CA	GLU N1450			36.296 37.244	1.00 56.31 1.00175.21	6 6
ATOM									
ATOM 20044 OEI CIU N1450 93.884 90.494 38.081 1.00184.88 8 ATOM 20046 C GLU N1450 94.671 88.734 39.132 1.00184.88 8 ATOM 20046 C GLU N1450 92.624 86.328 37.025 1.00 56.59 6 ATOM 20047 O GLU N1450 93.732 85.792 36.999 1.00 56.22 8 ATOM 20048 N ALA N1451 91.583 85.817 37.6791 1.00 49.67 7 ATOM 20049 CA ALA N1451 91.684 84.581 38.426 1.0049.67 7 ATOM 20050 CB ALA N1451 91.684 84.581 38.426 1.0049.72 6 ATOM 20050 CB ALA N1451 91.684 84.581 38.426 1.0049.73 6 ATOM 20050 CB ALA N1451 93.592 83.161 38.452 1.00 51.38 8 ATOM 20051 C ALA N1451 93.592 83.161 38.452 1.00 51.38 8 ATOM 20053 N ALA N1452 92.571 83.464 36.481 1.00 84.61 7 ATOM 20055 CB ALA N1452 93.291 82.606 37.785 1.00 84.25 8 ATOM 20055 CB ALA N1452 93.31 82.708 35.754 1.00 84.25 6 ATOM 20055 CB ALA N1452 93.31 82.708 35.754 1.00 84.25 6 ATOM 20050 CB ALA N1452 93.231 82.708 35.754 1.00 84.25 6 ATOM 20050 CB ALA N1452 93.231 82.708 35.754 1.00 84.25 6 ATOM 20050 CB ALA N1452 93.692 83.012 36.068 1.00 83.64 6 ATOM 20050 CB ALA N1452 95.697 82.213 85.793 1.00 84.27 8 ATOM 20050 CB ALA N1452 95.697 82.213 36.593 1.00 84.27 8 ATOM 20050 CB ALA N1452 95.697 82.213 36.593 1.00 84.27 8 ATOM 20050 CB ALA N1453 96.611 84.778 36.002 1.00 48.42 7 ATOM 20050 CB ALA N1453 96.612 86.332 35.894 1.00 56.02 6 ATOM 20050 CB ALA N1453 96.652 86.332 35.894 1.00 56.02 6 ATOM 20060 CB ALA N1453 96.652 86.332 35.894 1.00 56.02 6 ATOM 20060 CB ALA N1453 96.652 86.332 35.894 1.00 56.02 6 ATOM 20060 CB ALA N1454 96.768 84.778 36.000 1.00 47.40 6 ATOM 20060 CB ALA N1454 96.768 84.778 36.000 1.00 47.00 8 ATOM 20060 CB ALA N1454 96.768 84.778 36.000 1.00 47.00 8 ATOM 20060 CB ALA N1454 96.768 84.727 39.800 1.00 97.03 6 ATOM 20060 CB ALA N1454 96.768 84.727 39.800 1.00 97.73 6 ATOM 20060 CB ALA N1454 96.768 84.727 39.800 1.00 97.03 7.08 ATOM 20070 CB ALA N1454 96.552 83.484 1.00 56.08 7.00 97.03 6 ATOM 20070 CB ALA N1454 96.552 83.948 1.00 97.73 6 ATOM 20070 CB ALA N1454 96.768 84.727 39.800 1.00 97.73 6 ATOM 20070 CB ALA N1455 99.557 88.248 1.00 97.73 1.00 97.73 6 ATOM 20070 CB ALA N14									
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ATOM 20095 CB ASP N1458 86.137 78.958 44.464 1.00130.17 6									
	ATOM	20095	СВ	ASP N1458	86.13	37 78.958	44.464	1.00130.17	Ь

ATOM ATOM ATOM ATOM ATOM ATOM	20096 20097 20098 20099 20100 20101 20102		ASP ASP ASP ASP GLU	N1458 N1458 N1458 N1458 N1458 N1459 N1459	84.754 84.466 83.949 87.053 86.552 87.458 87.356	79.431 79.507 79.724 79.411 80.255 78.219 77.785	44.847 46.056 43.945 46.721 47.457 47.144 48.532	1.00132.81 1.00134.02 1.00134.12 1.00 52.13 1.00 52.31 1.00 69.54 1.00 69.25	6 8 8 6 8 7 6
MOTA	20103	СВ	GLU	N1459 N1459	87.898	78.860 78.297	49.476 50.788	1.00120.05 1.00122.42	6 6
ATOM ATOM	20104 20105	CG CD	GLU	N1459	88.416 89.429	77.178	50.585	1.00123.16	6
MOTA	20106 20107	OE1 OE2		N1459 N1459	90.453 89.201	77.415 76.062	49.909 51.103	1.00123.14 1.00122.96	8 8
ATOM	20107	C		N1459	85.906	77.464	48.848	1.00 67.80	6
MOTA	20109	0		N1459	85.600	76.769	49.810	1.00 66.51	8
MOTA	20110	N		N1460	85.023	77.979	48.005	1.00 57.98	7
ATOM ATOM	20111 20112	CA CB		N1460 N1460	83.590 83.305	77.755 76.293	48.104 47.742	1.00 57.91 1.00 28.57	6 6
ATOM	20112	CG		N1460	84.031	75.902	46.436	1.00 27.18	6
ATOM	20114	CD1		N1460	83.756	74.448	46.084	1.00 26.65	6
MOTA	20115	CD2		N1460	83.593	76.803	45.293	1.00 25.81	6
ATOM	20116	C		N1460	82.929	78.150 77.313	49.428 50.153	1.00 58.67 1.00 59.22	6 8
ATOM ATOM	20117 20118	N O		N1460 N1461	82.386 82.966	79.451	49.712	1.00 39.22	7
ATOM	20119	CA		N1461	82.379	80.025	50.920	1.00 71.83	6
ATOM	20120	СВ		N1461	83.234	81.173	51.457	1.00 81.21	6
ATOM	20121	CG2		N1461	82.578	81.771	52.683	1.00 81.21	6
ATOM	20122 20123	CG1 CD1		N1461 N1461	84.636 85.580	80.668 81.754	51.778 52.247	1.00 81.91 1.00 82.75	6 6
MOTA MOTA	20123	CDI		N1461	81.010	80.609	50.597	1.00 02.73	6
MOTA	20125	0		N1461	80.031	80.395	51.317	1.00 72.65	8
MOTA	20126	N	GLY	N1462	80.964	81.370	49.513	1.00132.81	7
MOTA	20127	CA		N1462	79.724	81.987	49.094	1.00133.02	6
MOTA MOTA	20128 20129	C O		N1462 N1462	78.733 79.033	80.982 80.240	48.546 47.611	1.00133.31 1.00133.17	6 8
ATOM	20129	N		N1463	77.545	80.963	49.140	1.00 61.88	7
ATOM	20131	CA		N1463	76.484	80.063	48.726	1.00 60.60	6
MOTA	20132	CB		N1463	75.191	80.451	49.443	1.00 50.32	6
MOTA	20133	CG		N1463	75.206	80.335	50.968	1.00 51.25	6 6
MOTA MOTA	20134 20135	CD1 CD2		N1463 N1463	73.977 75.260	81.009 78.871	51.565 51.355	1.00 50.41 1.00 51.51	6
ATOM	20135	CDZ		N1463	76.270	80.080	47.206	1.00 59.77	6
MOTA	20137	Ō		N1463	76.499	79.078	46.527	1.00 60.49	8
MOTA	20138	N		N1464	75.846	81.220	46.669	1.00 72.25	7
ATOM	20139	CA		N1464	75.591	81.314 82.697	45.238 44.862	1.00 71.28 1.00 79.80	6 6
ATOM ATOM	20140 20141	CB CG		N1464 N1464	75.068 73.658	82.925	45.369	1.00 79.80	6
ATOM	20142	CD		N1464	72.926	84.014	44.604	1.00 82.90	6
ATOM	20143	CE		N1464	71.541	84.200	45.190	1.00 83.03	6
ATOM	20144	NZ		N1464	70.912	82.870	45.434	1.00 83.10	7
ATOM ATOM	20145 20146	C O		N1464 N1464	76.776 76.691	80.961 81.019	44.373 43.152	1.00 70.10 1.00 70.34	6 8
ATOM	20147	И		N1465	77.886	80.602	44.996	1.00 71.22	7
ATOM	20148	CA		N1465	79.055	80.206	44.234	1.00 70.09	6
ATOM	20149	CB		N1465	80.324	80.535	45.004	1.00129.79	6
ATOM	20150	CD		N1465 N1465	80.288 81.538	81.883 82.151	45.670 46.457	1.00133.90 1.00136.35	6 6
ATOM	20151	CD	СПΩ	14T#07	01.330	04.TJT	±0.4J/	1.00130.33	U

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20152 20153 20154 20155 20156 20157 20158 20159 20160 20161 20162 20163 20164 20165 20166 20167 20168 20169 20171	OE2 C O N CA CB CG OD1 ND2 C O N CA CB CG1 CG2 C	GLU N1 GLU N1 GLU N1 ASN N1 ASN N1 ASN N1 ASN N1 ASN N1 ASN N1 VAL N1	1465 1465 1466 1466 1466 1466 1466 1466	81.920 82.137 78.883 78.694 78.933 78.765 78.546 79.244 78.650 80.515 77.527 77.410 76.593 75.407 74.289 73.302 75.895 75.772	81.284 83.228 78.707 78.123 78.101 76.672 76.371 75.117 74.040 75.251 76.307 75.190 77.247 76.952 78.074 78.226 77.693 76.796 75.730	47.269 46.267 44.153 43.087 45.326 45.482 46.971 47.474 47.797 44.662 44.148 44.543 43.761 43.883 42.570 44.989 42.335 41.759	1.00 4 1.00 3 1.00 5 1.00 5 1.00 5 1.00 3 1.00 2 1.00 2 1.00 1 1.00 1 1.00 1	8.46 7.73 8.58 3.12 9.88 3.76 0.93 4.93 4.93 4.65 5.60 9.71 1.30 0.21	8868766687687666687
ATOM ATOM ATOM ATOM	20171 20172 20173 20174	N CA CB CG2	ILE NIILE NIILE NIILE NI	L468 L468	76.488 76.984 78.039 78.665	77.847 77.816 78.901 78.784	41.783 40.413 40.221 38.840	1.00 2 1.00 2	8.96 8.15 8.50 8.28	7 6 6
ATOM ATOM ATOM	20175 20176 20177	CG1 CD1 C	ILE NI ILE NI ILE NI	L468 L468 L468	77.386 78.363 77.546	80.265 81.388 76.447	40.454 40.570 40.020	1.00 2 1.00 2 1.00 2	8.03 7.94 8.16	6 6 6
ATOM ATOM ATOM ATOM	20178 20179 20180 20181	O N CA CB	ILE N1 LEU N1 LEU N1	L469 L469	77.203 78.400 78.958 80.166	75.911 75.879 74.557 74.254	38.969 40.866 40.588 41.478	1.004 1.004	7.93 1.09 1.71 0.28	8 7 6 6
ATOM ATOM ATOM	20182 20183 20184	CG CD1 CD2	LEU NI LEU NI LEU NI	L469 L469 L469	81.322 82.281 82.032	75.226 74.557 75.575	41.701 42.666 40.407	1.00 4 1.00 3 1.00 3	0.00 9.89 9.68	6 6 6
ATOM ATOM ATOM	20185 20186 20187 20188	C O N CA	LEU NI LEU NI GLY NI	L469 L470	77.877 78.174 76.628 75.527	73.529 72.357 73.975 73.080	40.911 41.100 40.992 41.316	1.00 4 1.00 3	2.41 3.44 2.51 1.96	6 8 7 6
ATOM ATOM ATOM ATOM	20189 20190 20191	CA C O N	GLY NO GLY NO ARG NO	1470 1470	75.752 74.978 76.801	72.287 71.372 72.653	42.594 42.913 43.332	1.00 3 1.00 3	1.97 0.88 1.36	6 8 7
MOTA MOTA MOTA	20192 20193 20194	CA CB CG	ARG NO ARG NO	1471 1471 1471	77.159 78.442 79.732	71.956 72.535 71.877	44.561 45.166 44.668	1.00 7 1.00 7		6 6
ATOM ATOM ATOM ATOM	20195 20196 20197 20198	CD NE CZ NH1	ARG NO ARG NO ARG NO	1471 1471	80.914 80.775 81.475 82.369	72.219 71.640 72.026 72.999	45.583 46.923 47.992 47.894	1.00 8 1.00 8 1.00 8	5.00 6.24	6 7 6 7
ATOM ATOM ATOM	20199 20200 20201	NH2 C O	ARG NO ARG NO	1471 1471 1471	81.282 76.082 74.929	71.444 71.871 72.247	49.168 45.629 45.406	1.00 8 1.00 7 1.00 7	6.50 0.82 0.77	7 6 8
ATOM ATOM ATOM ATOM	20202 20203 20204 20205	N CA CB CG	LEU NO LEU NO LEU NO	1472 1472	76.490 75.598 75.887 75.373	71.377 71.150 69.763 69.335	46.794 47.920 48.483 49.852	1.00 4 1.00 4 1.00 3 1.00 3	3.60	7 6 6 6
ATOM ATOM ATOM	20206 20207	CD1	LEU NI	1472	73.873 73.873 75.852	69.393 67.924	49.905 50.115	1.00 3 1.00 3	3.13	6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20208 20209 20210 20211 20212 20213 20214 20215 20216 20217	C O N CA CB CG2 CG1 CD1 C	LEU N1472 LEU N1472 ILE N1473 ILE N1473 ILE N1473 ILE N1473 ILE N1473 ILE N1473 ILE N1473	75.63 76.22 74.97 74.87 73.40 73.31 72.67 73.16	4 71.901 8 73.304 8 74.383 7 74.622 4 75.499 0 75.293 9 76.692 3 74.208	49.047 50.086 48.838 49.820 50.203 51.428 49.054 48.733 51.128 51.903	1.00 43.50 1.00 42.73 1.00 40.42 1.00 40.08 1.00 25.68 1.00 24.29 1.00 26.68 1.00 27.55 1.00 41.31	687666668
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20218 20219 20220 20221 20222 20223 20224 20225	N CD CA CB CG C	PRO N1474 PRO N1474 PRO N1474 PRO N1474 PRO N1474 PRO N1474 PRO N1474 ALA N1475	76.60 77.20 77.33 78.42 77.89 76.41 76.45	76.163 6 74.937 7 75.990 1 77.001 7 75.142 5 74.372	51.401 50.569 52.660 52.583 51.597 53.853 54.797 53.809	1.00 63.72 1.00 14.38 1.00 63.88 1.00 13.87 1.00 13.87 1.00 65.05 1.00 65.63 1.00 31.81	7 6 6 6 6 6 8 7
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20226 20227 20228 20229 20230 20231 20232 20233	CA CB C O N CA C	ALA N1475 ALA N1475 ALA N1475 ALA N1475 GLY N1476 GLY N1476 GLY N1476 GLY N1476	74.64 73.95 73.58 73.53 72.75 71.71 72.20 73.29	77.792 75.348 75.4400 75.474 3 74.488 73.068	54.898 54.651 55.065 54.281 56.093 56.337 56.545 57.057	1.00 32.54 1.00124.85 1.00 31.96 1.00 31.04 1.00 41.35 1.00 42.52 1.00 42.98 1.00 42.28	66687668
ATOM ATOM ATOM ATOM ATOM ATOM	20234 20235 20236 20237 20238 20239 20240	N CA CB OG1 CG2 C	THR N1477	71.39 71.81 70.90 70.31 69.82 73.22	72.081 70.693 70.693 70.388 1 69.182 70.529 70.529	56.165 56.313 55.538 54.417 56.428 55.761 55.977	1.00 41.50 1.00 42.80 1.00 44.03 1.00 42.93 1.00 44.34 1.00 44.91 1.00 45.66	7 6 6 8 6 8 7
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20241 20242 20243 20244 20245 20246 20247 20248	N CA O N CA CB	GLY N1478 GLY N1478 GLY N1478 GLY N1478 SER N1479 SER N1479 SER N1479 SER N1479	73.69 75.01 76.14 77.29 75.84 76.88 76.03	71.493 66 71.867 71.519 72.573 72.984 73.723 75.088	57.426 58.623 58.327	1.00 57.56 1.00 60.51 1.00 63.35 1.00 64.75 1.00 38.88 1.00 40.64 1.00103.40 1.00106.29	6 8 7 6 8
ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20249 20250 20251 20252 20253 20254 20255 20256	C O N CA CB CG OD1	ASP N1480	77.69 77.13 79.01 79.88 81.34 81.69 82.43	70.843 71.893 71.825 71.232 71.722 71.722 71.093 72.728	58.454 57.780 58.248 58.137 56.761 55.779 56.661	1.00 40.61 1.00 40.38 1.00 35.78 1.00 38.88 1.00103.63 1.00107.23 1.00108.03 1.00108.79	6 8 7 6 6 6 8 8
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20257 20258 20259 20260 20261 20262 20263	C O N CA CB CG CD1	ASP N1480 ASP N1480 PHE N1481 PHE N1481 PHE N1481 PHE N1481 PHE N1481	79.54 79.76 78.99 78.62 78.02 77.65	59 69.439 71.549 26 71.366 29 72.619 72.437	60.210 60.380 61.763 62.371 63.796	1.00 39.79 1.00 40.17 1.00 40.34 1.00 41.24 1.00 47.30 1.00 47.35 1.00 47.07	6 8 7 6 6 6 6

ATOM ATOM	20264 20265	CD2 CE1	PHE N1481 PHE N1481	76.335 78.320	72.264 71.968	64.161 66.065	1.00 47.62 1.00 47.25	6 6
ATOM	20266	CE2		75.995	71.939	65.462	1.00 47.23	6
MOTA	20267	CZ	PHE N1481	76.989	71.786	66.420	1.00 47.42	6
ATOM	20268	С	PHE N1481	77.594	70.268	61.802	1.00 43.00	6
ATOM	20269	0	PHE N1481	77.103	69.884	62.867	1.00 43.61	8
ATOM	20270	N	VAL N1482	77.246	69.777	60.620	1.00 18.61	7
ATOM	20271 20272	CA CB	VAL N1482 VAL N1482	76.295 74.867	68.684 69.188	60.508 60.406	1.00 20.44 1.00 13.87	6 6
ATOM	20272	CG1	VAL N1482	74.007	68.067	59.914	1.00 13.87	6
ATOM	20273	CG2	VAL N1402	74.373	69.672	61.791	1.00 14.03	6
ATOM	20275	C	VAL N1482	76.603	67.803	59.298	1.00 22.04	6
ATOM	20276	0	VAL N1482	76.646	68.282	58.163	1.00 20.60	8
ATOM	20277	N	ARG N1483	76.817	66.518	59.572	1.00 84.77	7
MOTA	20278	CA	ARG N1483	77.146	65.498	58.573	1.00 88.49	6
ATOM	20279	CB	ARG N1483	78.210	66.009	57.595	1.00128.16	6
ATOM ATOM	20280 20281	CG CD	ARG N1483 ARG N1483	77.691 78.849	66.726 67.421	56.344 55.628	1.00131.30 1.00134.10	6 6
ATOM	20282	NE	ARG N1483	78.475	68.033	54.355	1.00134.10	7
ATOM	20283	CZ	ARG N1483	79.325	68.698	53.577	1.00134.62	6
MOTA	20284	NH1	ARG N1483	80.591	68.834	53.949	1.00133.57	7
MOTA	20285	NH2	ARG N1483	78.917	69.220	52.426	1.00134.01	7
MOTA	20286	C	ARG N1483	77.717	64.287	59.331	1.00 89.29	6
ATOM	20287	0	ARG N1483	78.645	63.624	58.861	1.00 89.58	8
ATOM ATOM	20288 20289	N CA	PHE N1484 PHE N1484	77.153 77.595	64.010 62.911	60.503 61.355	1.00 83.42 1.00 84.53	7 6
ATOM	20209	CB	PHE N1484	77.049	63.105	62.764	1.00 84.33	6
ATOM	20291	CG	PHE N1484	75.823	63.938	62.801	1.00142.07	6
ATOM	20292	CD1	PHE N1484	74.663	63.506	62.182	1.00143.59	6
MOTA	20293	CD2	PHE N1484	75.847	65.196	63.383	1.00142.71	6
ATOM	20294	CE1	PHE N1484	73.552	64.323	62.122	1.00144.75	6
ATOM	20295	CE2	PHE N1484	74.744	66.016	63.328 62.700	1.00144.32	6
ATOM	20296 20297	CZ C	PHE N1484 PHE N1484	73.591 77.219	65.580 61.529	60.880	1.00144.79 1.00 85.03	6 6
ATOM	20298	Ö	PHE N1484	76.295	61.355	60.082	1.00 85.54	8
ATOM	20299	N	THR N1485	77.957	60.549	61.399	1.00134.51	7
ATOM	20300	CA	THR N1485	77.750	59.139	61.091	1.00134.23	6
MOTA	20301	СВ	THR N1485	78.650	58.249	61.982	1.00 93.85	6
ATOM	20302	OG1	THR N1485	80.028	58.545	61.719	1.00 93.85	8
ATOM ATOM	20303 20304	CG2 C	THR N1485 THR N1485	78.402 76.285	56.786 58.871	61.697 61.391	1.00 94.16 1.00134.08	6 6
ATOM	20304	0	THR N1485	75.561	58.296	60.580	1.00134.47	8
ATOM	20306	Ň	ALA N1486	75.872	59.309	62.574	1.00 66.77	7
ATOM	20307	CA	ALA N1486	74.506	59.197	63.043	1.00 66.38	6
MOTA	20308	CB	ALA N1486	73.726	60.410	62.571	1.00114.27	6
ATOM	20309	C	ALA N1486	73.745	57.927	62.686	1.00 66.41	6
ATOM ATOM	20310 20311	N O	ALA N1486 VAL N1487	72.555 74.405	57.988 56.774	62.368 62.738	1.00 66.19 1.00 59.05	8 7
ATOM	20311	CA	VAL N1487	73.720	55.516	62.738	1.00 59.03	6
ATOM	20313	СВ	VAL N1487	73.994	55.049	60.954	1.00 98.48	6
MOTA	20314	CG1		73.064	53.895	60.578	1.00 98.08	6
ATOM	20315	CG2	VAL N1487	73.784	56.195	59.999	1.00 98.69	6
MOTA	20316	C	VAL N1487	74.106	54.384	63.373	1.00 59.66	6
ATOM ATOM	20317 20318	O N	VAL N1487 ALA N1488	75.019 73.411	53.611 54.305	63.113 64.491	1.00 59.03 1.00 68.33	8 7
ATOM	20318	CA	ALA N1488	73.411	53.252	65.444	1.00 69.99	6
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ATOM 20321 C ALA NIL488 71.356 52.958 64.919 1.00 71.13 6 8 ATOM 20322 O ALA NIL489 72.206 51.610 66.496 1.00 70.78 8 ATOM 20323 N ALA NIL489 70.961 65.221 1.00 80.33 6 ATOM 20325 CB ALA NIL489 70.651 49.953 65.553 1.00 13.87 6 ATOM 20326 C ALA NIL489 70.651 49.953 65.553 1.00 13.87 6 ATOM 20327 O ALA NIL489 70.143 49.953 65.553 1.00 13.87 6 ATOM 20328 N ALA NIL489 70.143 49.954 68.339 1.00 82.54 8 ATOM 20329 CA ALA NIL490 72.265 49.762 70.093 1.00 140.13 7 6 ATOM 20329 CA ALA NIL490 72.255 49.762 70.093 1.00140.13 7 6 ATOM 20330 CB ALA NIL490 72.265 49.762 70.093 1.00140.13 6 ATOM 20331 C ALA NIL490 72.691 48.331 69.762 1.00142.29 6 ATOM 20330 CA ALA NIL490 72.691 48.331 69.762 1.00142.29 6 ATOM 20330 CA ALA NIL491 71.765 47.587 69.168 1.00183.88 7 ATOM 20335 CB ALA NIL491 72.023 46.212 68.770 1.00185.16 6 ATOM 20336 C ALA NIL491 77.308 46.227 67.647 1.00185.16 6 ATOM 20336 C ALA NIL491 70.736 45.564 68.292 1.00 69.81 6 ATOM 20337 C ALA NIL491 70.736 45.564 68.292 1.00 69.81 6 ATOM 20338 N ALA NIL491 73.058 46.227 67.647 1.00186.29 6 ATOM 20338 N ALA NIL491 73.058 46.227 67.647 1.00186.29 6 ATOM 20338 N ALA NIL491 73.058 46.227 67.077 1.00186.59 8 ATOM 20338 N ALA NIL492 73.608 47.007 65.403 1.00 99.18 6 ATOM 20340 CB ALA NIL491 73.698 47.007 65.403 1.00 99.18 6 ATOM 20340 CB ALA NIL492 73.608 47.007 65.403 1.00 99.18 6 ATOM 20340 CB ALA NIL492 73.608 47.007 65.403 1.00 99.18 6 ATOM 20340 CB ALA NIL492 77.869 47.007 65.403 1.00 99.18 6 ATOM 20340 CB ALA NIL492 77.869 47.007 64.221 1.00 79.26 6 ATOM 20340 CB ALA NIL492 77.869 47.007 64.221 1.00 79.26 6 ATOM 20340 CB ALA NIL492 77.869 47.007 64.231 1.00 79.26 6 ATOM 20340 CB ALA NIL492 77.869 47.007 64.231 1.00 79.26 6 ATOM 20340 CB ALA NIL492 77.869 47.007 64.231 1.00 79.26 6 ATOM 20340 CB ALA NIL492 77.869 47.007 64.231 1.00 79.26 6 ATOM 20340 CB ALA NIL493 77.007 48.809 47.007 64.231 1.00 79.26 6 ATOM 20340 CB ALA NIL493 77.558 48.802 64.919 1.00100.00 6 ATOM 20340 CB ALA NIL494 77.261 45.809 66.201 1.00153.89 6 ATOM 20340 CB ALA NIL494 77.261 45.809 66.201 1	ATOM	20320	СВ	ALA N1488	74.141	53.834	66.752	1.00 90.26	6
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ATOM 20373 CA ALA H 1 48.724 69.457 64.581 1.00 71.95 6 ATOM 20374 N ALA H 2 50.850 68.621 63.833 1.00134.16 7				ALA H 1	48.217				
111011 20071 11 11211 11 -		1 20373	CA						
ATOM 20375 CA ALA H 2 52.107 68.587 63.096 1.00133.75 6									
	IOTA	M 20375	CA	ALA H 2	52.107	68.587	63.096	1.00133./5	О

ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20376 20377 20378 20379 20380 20381 20382	CB C O N CA CB	ALA H ALA H ALA H GLU H GLU H GLU H	2 3 3 3 3	52 51 53 54 55	.179 .544 .817 .721 .237 .663	69.381 67.128 66.320 66.789 65.432 65.487 66.283	63.841 62.915 62.332 63.427 63.302 62.749 61.455	1.00 71.36 1.00133.97 1.00134.70 1.00105.72 1.00104.48 1.00120.78 1.00123.15	6 8 7 6 6 6
ATOM ATOM ATOM ATOM ATOM ATOM	20383 20384 20385 20386 20387 20388 20389	CD OE1 OE2 C O N CD	GLU H GLU H GLU H GLU H PRO H	3 3 3 4 4	53 55 54 53 54 55	.151 .959 .842 .208 .635 .801	65.605 65.229 65.461 64.701 65.195 63.498 62.633	60.257 60.340 59.224 64.649 65.620 64.717 63.579	1.00124.33 1.00125.09 1.00125.28 1.00102.31 1.00102.17 1.00 90.20 1.00 84.46	8 8 6 8 7 6
ATOM ATOM ATOM ATOM ATOM ATOM	20390 20391 20392 20393 20394 20395 20396	CA CB CG C O N CA	PRO H PRO H PRO H PRO H GLY H	4 4 4 5	55 54 55 56 55	.826 .444 .938 .617 .449 .356	62.729 61.404 61.256 63.385 62.732 64.671 65.409	65.966 65.533 64.138 67.100 67.733 67.342 68.404	1.00 88.65 1.00 83.40 1.00 83.61 1.00 87.20 1.00 87.10 1.00 88.38 1.00 86.20	6 6 8 7
ATOM ATOM ATOM ATOM ATOM ATOM	20397 20398 20399 20400 20401 20402 20403	C O N CA CB CG2 CG1	GLY H GLY H ILE H ILE H ILE H ILE H	5 6 6 6 6	58 57 58 58 59	.320 .320 .297 .481 .143 .427	66.138 65.977 66.955 67.693 68.779 69.435 68.176	68.045 68.742 66.988 66.536 65.513 65.030 64.317	1.00 84.54 1.00 84.56 1.00 52.67 1.00 50.67 1.00 61.49 1.00 60.62 1.00 62.92	8 7 6 6 6
ATOM ATOM ATOM ATOM ATOM ATOM	20404 20405 20406 20407 20408 20409	CD1 C O N CA CB	ILE H ILE H ILE H ASP H ASP H ASP H ASP H	6 6 6 7 7	58 59 60 58 59 57	.336 .199 .416 .442 .032 .935	67.421 68.396 68.305 69.125 69.855 70.446 71.754	63.372 67.659 67.781 68.467 69.576 70.472 69.923	1.00 64.69 1.00 48.98 1.00 49.28 1.00 44.73 1.00 43.88 1.00 93.66 1.00 96.14	6 8 7 6
ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20410 20411 20412 20413 20414 20415 20416	CG OD1 OD2 C O N CA	ASP H ASP H ASP H ASP H LYS H	7 7 7 7 8 8	58 56 59 61 59	.089 .202 .927 .016 .466	72.775 71.766 68.929 69.308 67.701 66.713	69.926 69.483 70.371 70.783 70.558 71.314	1.00 97.83 1.00 96.45 1.00 41.56 1.00 40.75 1.00 30.16 1.00 29.00	8 8 6 8 7 6
ATOM ATOM ATOM ATOM ATOM ATOM	20417 20418 20419 20420 20421 20422 20423	CB CG CD CE NZ C	LYS H LYS H LYS H LYS H LYS H LYS H	8 8 8 8 8 8	57 57 57 56 61	.405 .941 .143 .576 .760 .571	65.418 65.640 64.338 63.440 62.192 66.435 66.358	71.412 71.785 71.831 72.983 73.053 70.659 71.326	1.00163.90 1.00166.14 1.00167.38 1.00167.20 1.00166.69 1.00 27.00	6 6 6 7 6 8
ATOM ATOM ATOM ATOM ATOM ATOM	20424 20425 20426 20427 20428 20429 20430	N CA CB CG CD1 CD2 C	LEU H LEU H LEU H	9 9 9 9 9 9 9	62 62 61 60 61	.566 .789 .450 .299 .943 .687	66.290 66.009 65.695 64.705 64.599 63.358 67.200	69.344 68.616 67.163 66.971 65.493 67.546 68.691	1.00 66.58 1.00 65.94 1.00 19.23 1.00 18.22 1.00 18.68 1.00 66.72	6 6 6 6
MOTA	20431	Ö	LEU H			.894	67.070	69.089	1.00 67.80	

ATOM ATOM ATOM ATOM ATOM	20432 20433 20434 20435 20436	N CA CB CG CD1	PHE H PHE H PHE H PHE H	10 10 10 10	63.231 64.017 63.131 62.910 61.743	68.366 69.589 70.775 70.956 71.532	68.309 68.326 67.984 66.522 66.057	1.00 58.43 1.00 57.27 1.00 26.49 1.00 24.11 1.00 23.18	7 6 6 6
MOTA MOTA	20437 20438	CD2 CE1	PHE H PHE H	10 10	63.891 61.555	70.596 71.750	65.608 64.711	1.00 24.17 1.00 23.51	6 6
MOTA MOTA	20439 20440	CE2 CZ	PHE H PHE H	10 10	63.710 62.540	70.812 71.391	64.255 63.806	1.00 24.06 1.00 23.71	6 6
MOTA MOTA	20441 20442	C 0	PHE H PHE H	10 10	64.658 65.482	69.814 70.706	69.674 69.835	1.00 58.57 1.00 60.31	6 8
MOTA	20443	N	GLY H	11	64.259	69.013	70.651	1.00 54.15	7
MOTA MOTA	20444 20445	CA C	GLY H GLY H	11 11	64.834 66.113	69.139 68.342	71.973 71.980	1.00 55.56 1.00 56.47	6 6
MOTA	20446	Ö	GLY H	11	67.191	68.874	72.245	1.00 55.94	8
MOTA	20447	N	MET H	12 12	65.987	67.058 66.159	71.664	1.00 87.20 1.00 88.91	7 6
ATOM ATOM	20448 20449	CA CB	MET H MET H	12	67.129 66.763	64.885	71.620 70.857	1.00 88.91 1.00 96.90	6
MOTA	20450	CG	MET H	12	65.521	64.194	71.372	1.00 98.92	6
MOTA MOTA	20451 20452	SD CE	MET H MET H	12 12	65.249 64.730	62.631 63.194	70.536 68.925	1.00102.56 1.00100.52	16 6
ATOM	20453	C	MET H	12	68.332	66.820	70.953	1.00 89.24	6
MOTA	20454	O	MET H	12	69.283	67.229 66.926	71.627	1.00 89.46 1.00 55.36	8 7
MOTA MOTA	20455 20456	N CA	VAL H VAL H	13 13	68.283 69.376	67.528	69.627 68.871	1.00 55.36 1.00 55.34	6
MOTA	20457	CB	VAL H	13	69.072	67.517	67.349	1.00 87.88	6
ATOM ATOM	20458 20459	CG1 CG2	VAL H VAL H	13 13	69.008 67.760	66.091 68.203	66.838 67.081	1.00 87.79 1.00 88.70	6 6
MOTA	20460	C	VAL H	13	69.657	68.964	69.329	1.00 54.34	6
ATOM	20461 20462	O N	VAL H ASP H	13 14	68.882 70.778	69.545 69.521	70.097 68.871	1.00 53.82 1.00 80.64	8 7
MOTA MOTA	20462	CA	ASP H	$\frac{14}{14}$	70.778	70.887	69.220	1.00 80.04	6
ATOM	20464	CB	ASP H	14	72.656	70.970	69.511	1.00 82.79	6
ATOM ATOM	20465 20466	CG OD1	ASP H ASP H	$\frac{14}{14}$	73.494 73.491	70.843 69.757	68.261 67.649	1.00 84.35 1.00 85.24	6 8
ATOM	20467	OD2	ASP H	14	74.141	71.837	67.879	1.00 84.99	8
ATOM ATOM	20468 20469	C O	ASP H ASP H	$\frac{14}{14}$	70.851 70.039	71.784 72.700	68.037 68.140	1.00 78.85 1.00 79.58	6 8
ATOM	20470	N	SER H	15	71.510	71.508	66.915	1.00 40.97	7
MOTA	20471	CA	SER H	15 15	71.317	72.266	65.689	1.00 37.59 1.00 34.50	6 6
MOTA MOTA	20472 20473	CB OG	SER H SER H	15 15	72.552 72.529	72.139 73.107	64.794 63.756	1.00 34.50	8
ATOM	20474	C	SER H	15	70.089	71.724	64.961	1.00 36.60	6
MOTA MOTA	20475 20476	N O	SER H LYS H	15 16	70.110 69.020	70.608 72.515	64.458 64.931	1.00 36.72 1.00 45.79	8 7
MOTA	20477	CA	LYS H	16	67.771	72.145	64.268	1.00 45.58	6
MOTA MOTA	20478 20479	CB CG	LYS H LYS H	16 16	66.979 65.704	73.409 73.187	63.928 63.138	1.00 60.78 1.00 60.97	6 6
MOTA	20480	CD	LYS H	16	65.193	74.496	62.524	1.00 61.73	6
ATOM ATOM	20481 20482	CE NZ	LYS H LYS H	16 16	63.842 63.377	74.310 75.511	61.830 61.077	1.00 62.66 1.00 62.70	6 7
ATOM	20482	C	LYS H	16	67.993	71.325	62.995	1.00 02.70	6
ATOM	20484	0	LYS H	16 17	67.141	70.530	62.613	1.00 45.21	8
MOTA MOTA	20485 20486	N CA	TYR H TYR H	17 17	69.136 69.438	71.510 70.778	62.343 61.113	1.00 27.19 1.00 27.85	7 6
MOTA	20487	CB	TYR H	17	70.414	71.575	60.246	1.00 54.79	6

ATOM ATOM ATOM ATOM ATOM	20488 20489 20490 20491 20492	CG CD1 CE1 CD2 CE2	TYR H TYR H TYR H TYR H TYR H	17 17 17 17 17	69.883 69.640 69.090 69.563 69.008	73.858 75.079 73.289	59.911 60.915 60.641 58.607 58.320	1.00 53.62 1.00 52.27 1.00 51.90 1.00 53.37 1.00 52.95	6 6 6 6
ATOM ATOM	20493 20494	CZ	TYR H TYR H	17 17	68.774 68.218	3 76.638	59.349 59.111	1.00 52.81 1.00 53.12	6 8
ATOM ATOM	20495 20496	C 0	TYR H TYR H	17 17	70.003 70.093	8 68.576	61.391 60.497	1.00 28.58 1.00 28.23	6 8
ATOM ATOM	20497 20498	N CA	ARG H ARG H	18 18	70.39 70.93	5 67.910	62.638 63.060	1.00 55.84 1.00 56.85	7 6
MOTA MOTA	20499 20500	CB CG	ARG H ARG H	18 18	71.381 71.976		64.532 65.097	1.00 86.52 1.00 87.17	6 6
ATOM ATOM	20501 20502	CD NE	ARG H ARG H	18 18	73.125 74.182		66.074 65.451	1.00 89.03 1.00 91.03	6 7
ATOM	20503	CZ	ARG H	18	75.372	2 68.007	65.994 67.184	1.00 90.39 1.00 90.95	6 7
ATOM ATOM	20504	NH1 NH2	ARG H	18 18	75.678 76.260	68.749	65.345	1.00 88.61	7
ATOM ATOM	20506 20507	C 0	ARG H ARG H	18 18	69.790 69.828	3 66.074	62.884 61.993	1.00 56.72 1.00 57.05	6 8
ATOM ATOM	20508 20509	N CA	LEU H LEU H	19 19	68.765 67.592		63.722 63.654	1.00 68.32 1.00 68.14	7 6
ATOM ATOM	20510 20511	CB CG	LEU H LEU H	19 19	66.440 65.045		64.429 64.121	1.00 47.50 1.00 47.31	6 6
ATOM ATOM	20512 20513	CD1 CD2	LEU H	19 19	64.966 64.022	64.837	64.491 64.884	1.00 47.18 1.00 48.01	6 6
MOTA	20514	С	LEU H	19	67.160	0 65.945	62.210	1.00 67.80 1.00 68.35	6 8
ATOM ATOM	20515 20516	O N	LEU H THR H	19 20	66.854 67.132	2 67.002	61.840	1.00 51.77	7
MOTA MOTA	20517 20518	CA CB	THR H	20 20	66.751 66.86	7 68.228	60.000 59.250	1.00 51.37 1.00 52.73	6
$ ext{MOTA}$	20519 20520	OG1 CG2	THR H	20 20	65.932 66.57	7 68.047	59.796 57.769	1.00 53.84 1.00 52.85	8 6
ATOM ATOM	20521 20522	C 0	THR H	20 20	67.672 67.218		59.318 58.623	1.00 49.82 1.00 49.18	6 8
MOTA MOTA	20523 20524	N CA	VAL H VAL H	21 21	68.970 69.989		59.536 58.950	1.00 56.67 1.00 56.33	7 6
ATOM ATOM	20525 20526	CB CG1	VAL H VAL H	21 21	71.363 72.433	3 65.733	59.252 58.857	1.00 47.80 1.00 46.78	6 6
ATOM ATOM	20527 20528	CG2	VAL H VAL H	21 21	71.526 69.949	67.049	58.514 59.401	1.00 49.31 1.00 55.74	6 6
MOTA	20529	C O	VAL H	21	69.989	9 62.826	58.576 60.712	1.00 56.18 1.00 35.41	8 7
ATOM ATOM	20530	N CA	VAL H	22 22	69.89° 69.842	2 62.191	61.287	1.00 33.46	6
ATOM ATOM	20532 20533	CB CG1		22 22	69.914 69.348	8 61.000	62.811 63.412	1.00 29.04 1.00 29.07	6
ATOM ATOM	20534 20535	CG2 C	VAL H VAL H	22 22	71.345 68.570	0 61.445	63.248 60.889	1.00 27.73 1.00 33.06	6 6
MOTA MOTA	20536 20537	O N	VAL H VAL H	22 23	68.629 67.422		60.491 61.021	1.00 32.88 1.00 26.43	8 7
ATOM ATOM	20538 20539	CA CB	VAL H VAL H	23 23	66.159 64.96		60.649 60.831	1.00 26.88 1.00 31.77	6 6
ATOM ATOM	20540 20541	CG1	VAL H	23 23	63.881 64.39	1 62.155	59.807 62.227	1.00 30.73 1.00 31.75	6 6
ATOM ATOM	20542 20543	C	VAL H	23 23	66.233 65.663	3 61.103	59.186 58.762	1.00 28.31 1.00 29.36	6 8
111 011	20040	•	11 111		33.00.		23.704		~

ATOM 20593 CA LEU H 30 66.072 52.005 57.395 1.00 77.56 6 ATOM 20594 CB LEU H 30 65.098 52.984 58.065 1.00 76.20 6 ATOM 20595 CG LEU H 30 63.918 52.502 58.918 1.00 76.30 6 ATOM 20596 CD1 LEU H 30 64.383 52.072 60.301 1.00 76.47 6

ATOM ATOM ATOM ATOM ATOM ATOM ATOM ATOM	20600 20601 20602 20603 20604 20605 20606 20607 20608 20610 20611 20612 20613 20615 20616 20617 20618 20620 20620 20620 20621 20622 20623 20623 20623 20623 20623 20633 20633 20633	CE1 NE2 C O N CA CB C	HIS H HIS H HIS H HIS H ALA H ALA H ALA H ALA H ALA H	31 31 31 31 31 31 31 32 32 32 32 32 32 32 33 33 33 33 33 33	64.119 63.377 61.876 60.787 61.199 59.499 63.935 63.234 65.193 65.837 66.870 68.337 70.970 72.640 66.524 66.714 66.903 67.542 69.003 69.993 70.889 70.174 71.141 71.592 66.761 65.845 67.128 66.522 67.342 65.070 64.273	48.935 49.550 50.540 47.995 47.405 47.746 46.722 46.556 47.028 47.361	56.069 54.933 55.100 55.501 56.687 55.827 53.602 52.592 53.612 52.725 51.623 51.598 50.644 49.620 50.713 51.720 50.497 52.541 52.087 52.552 51.540 50.409 52.788 54.011 54.832 56.1168	1.00 41.99 1.00 40.88 1.00 41.76 1.00 40.39 1.00 39.57 1.00 40.61 1.00 40.65 1.00 39.31 1.00 78.66 1.00 80.40 1.00 95.99 1.00 95.72 1.00 95.67 1.00 95.67 1.00 95.63 1.00 95.63 1.00 81.36 1.00109.02 1.00108.53 1.00122.48 1.00124.33 1.00125.29 1.00125.38 1.00125.38 1.00125.38 1.00125.62 1.00107.63 1.00108.16 1.00 31.83 1.00 30.66 1.00 42.18 1.00 30.40 1.00 29.31	766666876667677687666676768766681
ATOM ATOM	20633	N	ALA H	34 35	64.273 64.747	47.361	54.294	1.00 29.31	8 7
MOTA	20635	CA	ALA H	35	63.408	47.135	56.976	1.00 84.31	6
MOTA MOTA	20636 20637	CB C	ALA H ALA H	35 35	62.374 63.444	46.385 46.597	56.155 58.405	1.00112.48 1.00 84.82	6 6
ATOM	20638	0	ALA H	35	62.571	46.872	59.231	1.00 85.14	8
MOTA	20639	N	ALA H	36	64.491	45.830	58.678	1.00 78.81	7
MOTA MOTA	20640 20641	CA CB	ALA H ALA H	36 36	64.697 65.125	45.233 43.816	59.977 59.797	1.00 79.13 1.00 13.87	6 6
ATOM	20641	СБ	ALA H	36	65.714		60.808	1.00 13.07	6
MOTA	20643	Ö	ALA H	36	66.760		61.200	1.00 80.93	8
MOTA	20644	N	ASN H	37	65.407	47.265	61.055	1.00 95.62	7
MOTA MOTA	20645 20646	CA CB	ASN H ASN H	37 37	66.278 67.041	48.130 49.105	61.853 60.960	1.00 96.26 1.00 60.61	6 6
ATOM	20647	CG	ASN H	37	67.714	48.411	59.801	1.00 60.31	6
MOTA	20648		ASN H	37	68.195	47.283	59.949	1.00 60.57	8
ATOM	20649	ND2		37	67.784		58.657	1.00 58.82	7
MOTA MOTA	20650 20651	C O	ASN H ASN H	37 37	65.288 65.603	48.893 49.921	62.706 63.309	1.00 97.83 1.00 97.88	6 8
MOTA	20652	N	THR H	38	64.069	48.372	62.734	1.00 94.83	7
MOTA	20653	CA	THR H	38	62.985	48.962	63.495	1.00 96.49	6
MOTA	20654	CB OC1	THR H	38	61.680		63.200	1.00123.38	6
ATOM	20655	OG1	THR H	38	61.414	48.265	61.790	1.00123.47	8

ATOM ATOM	20656 20657	CG2 C	THR H	38 38	60.5 63.2	84 48.	.845 .884	63.963 64.981	1.00123.16 1.00 97.60	6 6
ATOM	20658	0	THR H	38	64.1		.109	65.422	1.00 98.49 1.00 75.84	8 7
MOTA MOTA	20659 20660	N CA	VAL H VAL H	39 39	62.5 62.7		. 699 . 738	65.751 67.195	1.00 75.84 1.00 76.63	6
ATOM	20661	СВ	VAL H	39	63.5	74 50.	.982	67.627	1.00 75.51	6
MOTA	20662	CG1	VAL H	39	63.7		.001	69.129	1.00 75.66	6
MOTA	20663	CG2	VAL H	39	64.9		.965	66.920	1.00 74.82 1.00 77.84	6
ATOM ATOM	20664 20665	C O	VAL H VAL H	39 39	61.3 61.0		. 873 . 895	67.730 68.937	1.00 77.84 1.00 77.57	6 8
ATOM	20666	И	LEU H	40	60.3		.945	66.804	1.00122.58	7
MOTA	20667	CA	LEU H	40	58.9	83 50.	.129	67.140	1.00124.80	6
ATOM	20668	CB	LEU H	40	58.4		.322	66.357	1.00 89.47	6
MOTA MOTA	20669 20670	CG CD1	LEU H LEU H	40 40	59.5 58.8		.361 .377	65.979 65.035	1.00 89.93 1.00 90.11	6 6
ATOM	20670	CD1	LEU H	40	60.0		.028	67.230	1.00 90.11	6
ATOM	20672	C	LEU H	40	58.1		.897	66.824	1.00126.55	6
ATOM	20673	0	LEU H	40	56.9		.964	66.797	1.00126.66	8
ATOM	20674	N	ALA H	41 41	58.8		.767 .544	66.599 66.270	1.00208.87 1.00208.87	7 6
ATOM ATOM	20675 20676	CA CB	ALA H ALA H	$\frac{41}{41}$	58.0 58.9		.650	65.409	1.00208.87	6
ATOM	20677	C	ALA H	41	57.4		.725	67.399	1.00208.87	6
ATOM	20678	0	ALA H	41	56.9		.660	67.158	1.00208.87	8
ATOM	20679	N	PRO H	42	57.5		.200	68.650	1.00208.87	7
ATOM	20680 20681	CD CA	PRO H PRO H	42 42	58.3 56.9		.229 .345	69.296 69.671	1.00169.16 1.00208.87	6 6
ATOM	20682	CB	PRO H	42	57.5		.806	70.979	1.00260.67	6
ATOM	20683	CG	PRO H	42	57.8	58 47.	.257	70.709	1.00169.89	6
ATOM	20684	C	PRO H	42	55.4		.465	69.767	1.00208.87	6
MOTA MOTA	20685 20686	O N	PRO H ALA H	42 43	54.6 54.9		.471 .683	69.976 69.572	1.00208.87 1.00166.32	8 7
ATOM	20687	CA	ALA H	43	53.4		.970	69.646	1.00165.47	6
MOTA	20688	CB	ALA H	43	52.9	45 46.	.587	71.015	1.00 82.37	6
MOTA	20689	C	ALA H	43	53.3		.471	69.414	1.00164.85	6
MOTA MOTA	20690 20691	O N	ALA H GLU H	43 44	52.2 54.4		.003 .141	69.426 69.220	1.00164.86 1.00115.40	8 7
ATOM	20691	CA	GLU H	44	54.5		.579	68.984	1.00113.40	6
MOTA	20693	CB	GLU H	44	55.4		.252	69.998	1.00 68.90	6
MOTA	20694	CG	GLU H	44	56.8		.602	70.134	1.00 68.56	6
ATOM	20695	CD OF1	GLU H	44	57.7 57.2		.359 .768	71.073	1.00 68.07 1.00 68.52	6 8
MOTA MOTA	20696 20697	OE1	GLU H GLU H	$\frac{44}{44}$	58.9		.543	72.154 70.728	1.00 67.29	8
MOTA	20698	C	GLU H	$\overline{44}$	55.0		.856	67.571	1.00113.37	6
MOTA	20699	0	GLU H	44	55.8		.703	67.361	1.00113.69	8
MOTA	20700	N	ALA H	45 45	54.4		.144	66.600	1.00102.32 1.00101.09	7 6
MOTA MOTA	20701 20702	CA CB	ALA H ALA H	45 45	54.8 55.0		.318 .959	65.217 64.554	1.00101.09	6
ATOM	20703	C	ALA H	45	53.8		.168	64.420	1.00100.08	6
MOTA	20704	0	ALA H	45	52.6		.053	64.582	1.00 99.68	8
MOTA	20705	N	PRO H	46	54.3 55.8		.054 .404	63.551 63.443	1.00108.75 1.00 70.08	7 6
ATOM ATOM	20706 20707	CD CA	PRO H PRO H	46 46	53.5		.938	62.707	1.00107.38	6
ATOM	20708	СВ	PRO H	46	54.6	27 53.	.732	61.934	1.00 68.99	6
MOTA	20709	CG	PRO H	46	55.7		.802	62.893	1.00 69.22	6
ATOM	20710	C O	PRO H PRO H	46 46	52.6 53.1		.147 .276	61.771 61.030	1.00106.25 1.00106.74	6 8
MOTA	20711	U	I UM	40	22.1	11 OI.	. 4/0	01.030	1.00100.74	O

ATOM ATOM ATOM	20712 20713 20714	N CA CB	LYS H LYS H LYS H	47 47 47	51.363 50.398 49.602	52.449 51.763 50.768	61.805 60.955 61.788	1.00 77.55 1.00 76.32 1.00 60.45	7 6 6
ATOM	20715	CG	LYS H	47	50.488	49.829	62.600	1.00 59.93	6
MOTA	20716	CD	LYS H	47	49.690	48.672	63.200	1.00 60.60	6
ATOM ATOM	20717 20718	CE NZ	LYS H LYS H	47 47	49.929 48.915	47.357 46.301	62.445 62.780	1.00 61.71 1.00 63.05	6 7
ATOM	20718	C	LYS H	47	49.471	52.779	60.298	1.00 76.31	6
ATOM	20720	Ô	LYS H	47	49.301	53.886	60.798	1.00 76.41	8
ATOM	20721	N	MET H	48	48.874	52.397	59.175	1.00136.18	7
ATOM	20722	CA	MET H	48	47.990	53.283	58.426	1.00136.16	6
MOTA	20723	CB	MET H	48	48.345	53.195	56.946	1.00 59.72	6
ATOM ATOM	20724 20725	CG SD	MET H MET H	48 48	47.728 48.121	54.261 54.004	56.105 54.390	1.00 59.53 1.00 58.70	6 16
ATOM	20725	CE	MET H	48	49.888	54.004	54.463	1.00 58.70	6
ATOM	20727	C	MET H	48	46.503	52.976	58.618	1.00136.90	6
ATOM	20728	0	MET H	48	46.059	52.706	59.732	1.00138.26	8
MOTA	20729	N	ARG H	49	45.741	53.023	57.526	1.00 98.70	7
ATOM	20730	CA	ARG H	49	44.304	52.740	57.549	1.00 99.46	6
ATOM ATOM	20731 20732	CB CG	ARG H ARG H	49 49	43.571 43.250	53.715 53.181	58.474 59.864	1.00165.52 1.00167.81	6 6
ATOM	20732	CD	ARG H	49	43.230	54.177	60.609	1.00167.81	6
ATOM	20734	NE	ARG H	49	42.023	53.740	61.956	1.00170.49	7
MOTA	20735	CZ	ARG H	49	41.245	54.432	62.784	1.00171.18	6
MOTA	20736	NH1	ARG H	49	40.731	55.596	62.400	1.00170.50	7
MOTA	20737	NH2	ARG H	49	40.979	53.964	63.996	1.00171.83	7
MOTA MOTA	20738 20739	C O	ARG H ARG H	49 49	43.696 43.645	52.840 53.924	56.152 55.569	1.00 99.81 1.00100.57	6 8
ATOM	20740	N	THR H	50	43.226	51.714	55.621	1.00100.37	7
ATOM	20741	CA	THR H	50	42.612	51.686	54.291	1.00 80.24	6
MOTA	20742	CB	THR H	50	43.688	51.772	53.168	1.00161.47	6
MOTA	20743	OG1	THR H	50	44.432	52.990	53.304	1.00162.18	8
MOTA	20744	CG2 C	THR H	50 50	43.036 41.773	51.753 50.420	51.791 54.073	1.00161.65 1.00 80.46	6 6
MOTA MOTA	20745 20746	0	THR H	50 50	42.195	49.319	54.424	1.00 80.40	8
MOTA	20747	N	ALA H	51	40.587	50.608	53.493	1.00170.99	7
MOTA	20748	CA	ALA H	51	39.633	49.540	53.179	1.00171.40	6
MOTA	20749	CB	ALA H	51	39.772	49.144	51.708	1.00135.49	6
ATOM	20750	C	ALA H	51	39.688	48.288	54.055	1.00171.67	6
MOTA MOTA	20751 20752	O NT	ALA H ALA H	51 52	38.722 40.813	47.961 47.584	54.746 54.022	1.00171.50 1.00123.85	8 7
ATOM	20752	N CA	ALA H	52 52	40.813	46.368	54.806	1.00123.83	6
MOTA	20754	СВ	ALA H	52	41.502	45.261	53.918	1.00 35.38	6
MOTA	20755	C	ALA H	52	41.843	46.510	56.049	1.00125.38	6
MOTA	20756	0	ALA H	52	42.619	45.610	56.363	1.00126.00	8
ATOM	20757	N	GLY H	53	41.729	47.631	56.754	1.00116.12	7
MOTA MOTA	20758 20759	CA C	GLY H GLY H	53 53	42.521 43.816	47.817 48.601	57.959 57.825	1.00115.99 1.00115.70	6 6
ATOM	20760	0	GLY H	53	43.972	49.434	56.934	1.00115.70	8
ATOM	20761	N	LEU H	54	44.749	48.312	58.726	1.00 60.84	7
MOTA	20762	CA	LEU H	54	46.052	48.971	58.782	1.00 60.49	6
ATOM	20763	CB	LEU H	54	46.635	48.814	60.186	1.00 79.09	6
ATOM	20764	CG CD1	LEU H	54 51	46.064	49.648 49.858	61.336 61.201	1.00 78.68 1.00 78.11	6 6
ATOM ATOM	20765 20766	CD1	LEU H LEU H	54 54	44.560 46.405	49.030	62.635	1.00 78.11	6
ATOM	20767	C	LEU H	54	47.069	48.469	57.762	1.00 60.34	6

ATOM 20768 O LEU H 54 46.745 47.670 56.891 1.00 60.52 8 ATOM 20770 CA ALA H 55 48.304 48.948 57.889 1.00 77.77 7 ATOM 20771 CB ALA H 55 48.404 48.574 57.004 1.00 78.07 6 ATOM 20771 C ALA H 55 48.40 49.411 48.574 57.004 1.00 78.07 6 ATOM 20772 C ALA H 55 58.490 49.648 57.87 1.00 1.00 78.07 6 ATOM 20773 O ALA H 55 50.490 49.648 57.100 1.00 78.45 6 ATOM 20774 N ALA H 56 55 50.490 49.648 57.100 1.00 78.470 8 ATOM 20775 CA ALA H 56 51.541 49.374 57.868 1.00174.29 6 ATOM 20776 CB ALA H 56 52.640 50.324 58.050 1.00174.29 6 ATOM 20777 C ALA H 56 52.845 51.76 56.891 1.00174.29 6 ATOM 20778 O ALA H 56 52.854 51.676 56.801 1.00174.77 6 ATOM 20778 O ALA H 56 52.854 51.676 56.801 1.00174.79 6 ATOM 20778 O ALA H 56 52.854 51.676 56.801 1.00174.79 6 ATOM 20778 O ALA H 56 52.854 50.658 55.684 1.00175.59 8 ATOM 20780 CA ASP H 57 53.073 52.478 56.982 1.00 71.54 7 ATOM 20781 CB ASP H 57 53.272 53.358 55.803 1.00 70.65 6 ATOM 20781 CB ASP H 57 52.810 54.792 56.144 1.00164.99 6 ATOM 20783 OD1 ASP H 57 53.573 55.478 55.856 1.00164.69 8 ATOM 20784 OD2 ASP H 57 53.673 55.478 57.321 1.00166.34 6 ATOM 20786 C ASP H 57 53.673 55.478 57.321 1.00166.34 6 ATOM 20789 C ASP H 57 53.673 55.478 57.321 1.00166.34 6 ATOM 20780 C ASP H 57 53.673 55.478 57.321 1.00166.34 6 ATOM 20780 C ASP H 57 53.678 55.4792 56.144 1.00175.83 6 ATOM 20780 C ASP H 57 55.679 53.370 55.286 1.00164.60 8 ATOM 20780 C ASP H 57 55.679 53.370 55.286 1.00164.60 8 ATOM 20780 C ASP H 57 55.679 53.370 55.286 1.00164.60 8 ATOM 20780 C ASP H 57 55.679 53.370 55.286 1.00164.60 8 ATOM 20780 C ASP H 57 55.679 53.370 55.286 1.00164.60 8 ATOM 20780 C ASP H 58 57.472 54.451 59.388 51.805 1.00175.82 7 ATOM 20780 C ASP H 58 57.472 54.451 59.388 51.805 1.00175.82 7 ATOM 20780 C ASP H 58 57.472 54.451 59.388 51.805 1.00177.12 8 ATOM 20790 C BROH 58 53.444 59.588 51.805 56.000 1.00168.86 6 ATOM 20800 C ASN H 59 57.66 226 57.742 54.836 1.00168.86 6 ATOM 20800 C ASN H 59 57.66 226 57.742 54.836 1.00168.86 6 ATOM 20800 C ASN H 59 57.139 59.683 53.832 1.00194.22 6 ATOM 20800 C ASN H 59 57.496	3.003.6	0.07.60	^	T TOTT 11	г 4	16 715	47 670	FC 001	1 00 60 50	0
ATOM 20771 CB ALA H 55										
ATOM 20772 CB ALA H 55 50.48.928 48.452 55.557 1.00 81.78 6 ATOM 20772 C ALA H 55 50.365 50.710 56.493 1.00 78.45 6 ATOM 20774 N ALA H 56 51.541 49.374 57.868 1.00173.90 7 ATOM 20775 CA ALA H 56 51.541 49.374 57.868 1.00173.90 7 ATOM 20776 CB ALA H 56 51.541 49.374 57.868 1.00174.29 6 ATOM 20777 C ALA H 56 51.541 49.374 57.868 1.00174.29 6 ATOM 20777 C ALA H 56 52.864 51.576 56.801 1.00174.77 6 ATOM 20778 O ALA H 56 52.824 50.658 55.892 1.00174.77 6 ATOM 20779 N ASP H 57 53.073 52.478 56.982 1.0071.54 7 ATOM 20780 CA ASP H 57 53.272 53.358 55.830 1.00174.77 6 ATOM 20781 CB ASP H 57 53.272 53.358 55.830 1.00174.67 6 ATOM 20781 CB ASP H 57 53.528 55.805 57.856 1.00166.34 6 ATOM 20782 CG ASP H 57 53.538 55.405 57.856 1.00166.34 6 ATOM 20783 ODI ASP H 57 53.538 55.405 57.856 1.00166.34 6 ATOM 20784 ODZ ASP H 57 53.492 55.358 55.800 1.007.056.38 8 ATOM 20786 C ASP H 57 54.702 53.350 55.286 1.00168.33 8 ATOM 20787 N FRO H 58 54.866 53.197 53.965 1.00168.33 8 ATOM 20788 CD PRO H 58 54.846 53.197 53.965 1.00168.33 8 ATOM 20788 CD PRO H 58 54.486 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 54.486 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 54.449 52.358 51.856 1.00175.82 7 ATOM 20791 CG PRO H 58 54.449 52.358 51.856 1.00175.82 7 ATOM 20792 C PRO H 58 54.449 52.358 51.856 1.00175.82 7 ATOM 20793 O PRO H 58 56.432 53.744 53.261 1.00175.53 6 ATOM 20793 CG PRO H 58 56.432 53.744 53.261 1.00175.53 6 ATOM 20799 CG PRO H 58 56.432 53.744 53.261 1.00175.82 7 ATOM 20799 CG PRO H 58 56.432 53.744 53.261 1.00175.82 7 ATOM 20790 CB PRO H 58 56.432 53.744 53.261 1.00175.53 6 ATOM 20791 CG PRO H 58 56.432 53.744 53.261 1.00175.53 6 ATOM 20791 CG PRO H 58 56.435 55.455 54.041 1.00175.53 6 ATOM 20791 CG PRO H 58 56.435 55.455 54.041 1.00175.53 6 ATOM 20800 C ASN H 59 57.130 56.675 58.50 1.00 40.88 6 ATOM 20801 C ASN H 59 57.130 56.675 58.50 1.00 40.88 6 ATOM 20803 CA ALA H 60 61.615 56.438 55.455 1.0014.62 8 ATOM 20803 CA ALA H 60 61.615 56.495 57.42 54.893 1.00104.62 8 ATOM 20803 CA ALA H 60 61.615 56.495 57.42 59.33 1.000										
ATOM 20773 C ALA H 55 50.490 49.648 57.100 1.00 78.45 6 8 ATOM 20774 N ALA H 55 50.365 50.710 56.493 1.00 78.70 8 A ATOM 20776 CB ALA H 56 51.541 49.374 57.868 1.00173.90 7 ATOM 20776 CB ALA H 56 51.541 49.374 57.868 1.00173.90 7 ATOM 20776 CB ALA H 56 53.917 49.573 58.392 1.00124.91 6 ATOM 20777 C ALA H 56 52.854 51.176 56.801 1.00174.79 6 ATOM 20778 O ALA H 56 52.854 51.176 56.801 1.00174.79 6 ATOM 20778 O ALA H 56 52.854 51.176 56.801 1.00174.79 8 ATOM 20778 O ALA H 56 52.854 51.176 56.801 1.00174.79 8 ATOM 20778 O ALA H 56 52.854 50.658 55.684 1.00175.59 8 ATOM 20780 CA ASP H 57 53.073 52.478 56.982 1.007.15.59 8 ATOM 20780 CA ASP H 57 53.073 52.478 56.982 1.007.655 6 ATOM 20782 CG ASP H 57 53.578 55.405 57.321 1.00166.34 6 ATOM 20783 ODI ASP H 57 53.558 55.405 57.321 1.00166.34 6 ATOM 20783 ODI ASP H 57 53.158 55.405 57.321 1.00166.34 6 ATOM 20785 C ASP H 57 53.158 55.405 57.321 1.00166.34 6 ATOM 20785 C ASP H 57 54.461 54.755 57.856 1.00168.33 8 ATOM 20785 C ASP H 57 54.461 54.755 57.856 1.00168.33 8 ATOM 20785 C ASP H 57 54.461 54.755 57.856 1.00168.33 8 ATOM 20787 N PRO H 58 54.486 53.179 53.505 1.00175.82 7 ATOM 20787 N PRO H 58 56.436 53.174 53.209 53.018 1.00175.82 7 ATOM 20787 N PRO H 58 56.132 53.174 53.209 53.018 1.00175.82 7 ATOM 20780 CB PRO H 58 55.134 53.109 51.796 1.00177.10 6 ATOM 20791 CG PRO H 58 55.134 53.109 51.796 1.00177.10 6 ATOM 20792 C PRO H 58 57.180 56.672 54.356 1.0014.24 6 ATOM 20791 CG PRO H 58 57.180 56.672 54.356 1.00174.24 6 ATOM 20792 C PRO H 58 57.180 56.672 54.356 1.0014.24 6 ATOM 20791 CG ASN H 59 56.842 57.796 54.893 1.00174.24 6 ATOM 20792 C ASN H 59 56.842 57.796 56.794 1.00177.10 6 ATOM 20794 N ASN H 59 56.842 59.120 54.970 1.00127.10 6 ATOM 20800 C ASN H 59 56.842 59.120 54.970 1.00127.10 6 ATOM 20800 C ASN H 59 56.842 59.120 54.970 1.00128.47 6 ATOM 20800 C ASN H 59 57.180 56.672 54.950 1.00018.55 7 ATOM 20800 C ASN H 59 57.180 56.672 54.970 1.0018.83 6 ATOM 20801 C ASN H 59 57.180 56.672 54.970 1.0018.83 6 ATOM 20801 C ASN H 59 57.180 56.672 54.970 1.00018.83 6 AT	ATOM	20770	CA	ALA H		49.411	48.574			
ATOM 20773 O ALA H 55 50.365 \$0.710 \$66.493 \$1.00 78.70 8 ATOM 20775 CA ALA H 56 \$1.541 \$49.374 \$7.868 \$1.00174.390 7 ATOM 20775 CA ALA H 56 \$2.640 \$0.324 \$8.050 \$1.00174.29 6 ATOM 20777 C ALA H 56 \$52.814 \$1.176 \$6.891 \$1.00174.77 6 ATOM 20777 C ALA H 56 \$52.824 \$51.176 \$6.801 \$1.00174.77 6 ATOM 20779 N ALA H 56 \$52.824 \$50.658 \$5.684 \$1.00175.59 8 ATOM 20779 N ASP H 57 \$53.073 \$52.478 \$6.982 \$1.00 71.54 7 ATOM 20780 CA ASP H 57 \$53.272 \$3.358 \$55.830 \$1.00 70.154 \$6 ATOM 20781 CB ASP H 57 \$53.272 \$3.358 \$5.830 \$1.00 70.655 \$6 ATOM 20781 CB ASP H 57 \$53.272 \$3.358 \$55.830 \$1.00 70.655 \$6 ATOM 20782 CG ASP H 57 \$53.272 \$3.358 \$55.800 \$1.00164.69 \$6 ATOM 20784 \$002 ASP H 57 \$53.281 \$54.792 \$57.856 \$1.00164.69 \$6 ATOM 20784 \$002 ASP H 57 \$54.461 \$54.755 \$7.856 \$1.00164.60 \$8 ATOM 20786 \$C ASP H 57 \$54.461 \$54.755 \$7.856 \$1.00164.60 \$8 ATOM 20786 \$C ASP H 57 \$54.461 \$54.755 \$7.856 \$1.00164.60 \$8 ATOM 20786 \$C ASP H 57 \$54.461 \$54.755 \$7.856 \$1.00164.60 \$8 ATOM 20786 \$C ASP H 57 \$54.461 \$54.755 \$7.856 \$1.00164.60 \$8 ATOM 20786 \$C ASP H 57 \$54.461 \$54.755 \$7.856 \$1.00164.60 \$8 ATOM 20786 \$C ASP H 57 \$54.402 \$33.370 \$55.286 \$1.00 69.56 \$6 ATOM 20786 \$C ASP H 57 \$54.402 \$33.370 \$55.286 \$1.00165.33 \$8 ATOM 20786 \$C ASP H 57 \$54.402 \$33.370 \$55.286 \$1.00175.82 \$7 ATOM 20789 \$C ASP H 57 \$54.402 \$33.197 \$33.965 \$1.00175.82 \$7 ATOM 20799 \$C B PRO H 58 \$54.846 \$33.197 \$33.095 \$1.00175.82 \$7 ATOM 20799 \$C B PRO H 58 \$54.846 \$33.197 \$33.095 \$1.00175.53 \$6 ATOM 20791 \$C B PRO H 58 \$54.419 \$52.385 \$1.856 \$1.00177.10 \$6 ATOM 20791 \$C B PRO H 58 \$54.419 \$52.385 \$1.856 \$1.00177.10 \$6 ATOM 20792 \$C PRO H 58 \$54.419 \$52.385 \$1.856 \$1.00174.62 \$8 ATOM 20797 \$C B ASN H 59 \$56.438 \$55.745 \$4.356 \$1.00174.24 \$6 ATOM 20799 \$C B ASN H 59 \$57.180 \$56.672 \$3.350 \$1.00144.24 \$6 ATOM 20799 \$C B ASN H 59 \$57.916 \$56.472 \$4.901 \$1.00188.55 \$7 ATOM 20800 \$C ASN H 59 \$57.916 \$56.495 \$54.901 \$1.00144.62 \$6 ATOM 20810 \$C ASN H 59 \$57.916 \$56.495 \$54.901 \$1.00048.55 \$7 ATOM 20800 \$C ALA H 60 60.618 \$57.975 \$54.990 \$1.00 48.86 \$6 ATOM 20810 \$C VAL H	MOTA	20771	CB	ALA H	55	48.928	48.452	55.557	1.00 81.78	
ATOM 20774 N ALA H 55 50.365 \$0.710 \$66.493 \$1.00 78.70 8 ATOM 20775 CA ALA H 56 51.511 \$49.374 \$78.68 \$1.00173.90 7 ATOM 20775 CB ALA H 56 52.640 \$0.324 \$8.050 \$1.00174.29 6 ATOM 20777 C BALA H 56 52.854 \$1.176 \$68.91 \$1.00174.29 6 ATOM 20777 C ALA H 56 52.854 \$51.176 \$68.91 \$1.00174.77 6 ATOM 20779 N ALA H 56 52.854 \$51.176 \$68.91 \$1.00174.77 6 ATOM 20779 N ALA H 56 52.854 \$51.688 \$1.00174.77 6 ATOM 20779 N ALA H 56 52.824 \$50.658 \$55.684 \$1.00175.59 8 ATOM 20779 N ASP H 57 53.272 \$3.358 \$55.832 \$1.0070.55 6 ATOM 20781 CB ASP H 57 53.272 \$3.358 \$55.830 \$1.00 70.65 6 ATOM 20781 CB ASP H 57 53.3272 \$3.358 \$55.830 \$1.00 70.65 6 ATOM 20782 CG ASP H 57 53.358 \$55.405 \$7.321 \$1.00164.99 \$40.00 \$40	ATOM	20772	С	ALA H	55	50.490	49.648	57.100	1.00 78.45	6
ATOM 20775									1.00 78.70	8
ATOM 20775 CA ALA H 56										
ATOM 20776 CB ALA H 56 52.824 51.76 56.8392 1.00124.91 6 ATOM 20777 C ALA H 56 52.824 51.76 56.801 1.00174.77 6 ATOM 20778 O ALA H 56 52.824 50.658 55.684 1.00175.59 8 ATOM 20778 N ASP H 57 53.073 52.478 56.982 1.00176.56 7 ATOM 20780 CA ASP H 57 53.073 52.478 56.982 1.00770.65 6 ATOM 20781 CB ASP H 57 53.538 55.684 1.00164.99 6 ATOM 20782 CG ASP H 57 53.538 55.684 1.00164.99 6 ATOM 20783 OD1 ASP H 57 53.538 55.685 1.00164.60 8 ATOM 20784 OD2 ASP H 57 53.538 55.685 1.00164.60 8 ATOM 20788 OD1 ASP H 57 53.538 55.685 1.00164.60 8 ATOM 20786 C ASP H 57 53.189 56.542 57.706 1.00168.33 8 ATOM 20786 C ASP H 57 55.667 53.530 56.029 1.00 69.56 6 ATOM 20787 N PRO H 58 53.734 53.090 53.018 1.00126.29 6 ATOM 20788 CD PRO H 58 53.734 53.090 53.018 1.00126.29 6 ATOM 20788 CD PRO H 58 55.145 53.199 56.6542 57.706 1.00168.33 8 ATOM 20788 CD PRO H 58 53.734 53.009 53.018 1.00126.29 6 ATOM 20780 CB PRO H 58 55.145 53.109 51.796 1.00127.10 6 ATOM 20790 CB PRO H 58 57.14 53.109 51.796 1.00127.10 6 ATOM 20791 CG PRO H 58 57.145 53.159 51.856 1.00127.14 6 ATOM 20792 C PRO H 58 58.243 54.321 53.325 1.00174.62 8 ATOM 20793 O PRO H 58 57.135 55.455 54.041 1.00 50.78 7 ATOM 20796 CB ASN H 59 56.438 55.455 54.041 1.00 50.78 7 ATOM 20797 CG ASN H 59 56.226 57.742 54.893 1.00174.62 8 ATOM 20797 CG ASN H 59 56.266 57.742 54.893 1.00174.62 8 ATOM 20799 CA ASN H 59 57.139 59.683 53.852 1.00174.62 8 ATOM 20799 CA ASN H 59 57.139 59.683 53.852 1.00174.62 8 ATOM 20790 CB ASN H 59 57.139 59.683 53.852 1.00109.20 8 ATOM 20790 CB ASN H 59 57.130 56.672 54.911 1.00168.47 6 ATOM 20800 C ASN H 59 57.139 59.683 53.852 1.00109.20 8 ATOM 20791 CG ASN H 59 57.916 56.157 56.575 1.00 47.13 8 ATOM 20800 C ASN H 59 57.916 56.157 56.091 1.00 48.84 6 ATOM 20801 CG ASN H 59 57.916 56.157 56.575 1.00 47.13 8 ATOM 20802 N ALA H 60 61.051 56.614 58.138 1.00 48.66 6 ATOM 20803 CA ALA H 60 61.051 56.614 58.138 1.00 48.66 6 ATOM 20804 CB VAL H 61 60.849 60.739 57.044 1.00 20.73.9 7 ATOM 20805 C ALA H 61 60.849 60.739 57.044 1.00 20.73.9 7 ATOM 20810 CG VAL H 61 60.59										
ATOM										
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ATOM 20780 CA ASP H 57 53.272 53.358 55.830 1.00 70.65 6 ATOM 20782 CG ASP H 57 52.810 54.792 56.144 1.00164.99 6 ATOM 20782 CG ASP H 57 53.558 55.405 57.321 1.00166.34 6 ATOM 20783 OD1 ASP H 57 53.558 55.405 57.321 1.00166.34 6 ATOM 20785 C ASP H 57 54.461 54.755 57.856 1.00164.60 8 ATOM 20785 C ASP H 57 54.702 53.370 55.286 1.00168.33 ATOM 20786 O ASP H 57 54.702 53.370 55.286 1.0069.56 6 ATOM 20787 N PRO H 58 54.846 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 56.4846 53.197 53.965 1.00175.82 7 ATOM 20789 CA PRO H 58 56.122 53.374 53.261 1.00175.53 6 ATOM 20790 CB PRO H 58 55.714 53.109 51.796 1.00127.10 6 ATOM 20791 CG PRO H 58 55.4419 52.358 51.856 1.00127.10 6 ATOM 20792 C PRO H 58 58.243 54.315 53.354 1.00174.24 6 ATOM 20793 O PRO H 58 58.243 54.321 53.325 1.00174.24 6 ATOM 20794 N ASN H 59 56.438 55.455 54.041 1.00 57.78 7 ATOM 20795 CA ASN H 59 56.226 57.742 54.356 1.00 48.68 6 ATOM 20799 CD ASN H 59 56.226 57.742 54.356 1.00 48.68 6 ATOM 20799 CD ASN H 59 57.180 56.672 54.356 1.00 48.68 6 ATOM 20799 OD ASN H 59 57.180 56.672 54.356 1.00 48.68 6 ATOM 20799 DD ASN H 59 57.180 56.672 54.356 1.00 48.68 6 ATOM 20799 DD ASN H 59 57.180 56.672 54.356 1.00 48.68 6 ATOM 20799 DD ASN H 59 57.190 56.672 54.356 1.00 48.68 6 ATOM 20800 C ASN H 59 57.916 56.529 54.901 1.00108.47 6 ATOM 20800 C ASN H 59 57.916 56.226 57.742 54.991 1.00108.47 6 ATOM 20800 C ASN H 59 57.916 56.299 54.970 1.00 90.64 6 ATOM 20800 C ASN H 59 57.916 56.299 54.970 1.00 90.64 6 ATOM 20800 C ASN H 59 57.916 56.299 54.970 1.00 90.64 6 ATOM 20800 C ASN H 59 57.916 56.299 54.970 1.00 90.64 6 ATOM 20800 C ASN H 59 57.916 56.299 54.970 1.00 90.64 6 ATOM 20800 C B ALA H 60 60.618 57.975 55.850 1.00 49.58 6 ATOM 20800 C B ALA H 60 60.886 55.975 55.850 1.00 49.58 6 ATOM 20800 C B ALA H 60 60.886 55.975 55.850 1.00 49.58 6 ATOM 20800 C B ALA H 60 60.886 55.975 55.850 1.00 49.58 6 ATOM 20800 C B ALA H 60 60.886 55.975 55.850 1.00 90.64 6 ATOM 20800 C B ALA H 60 60.590 59.401 59.993 1.00 46.66 6 ATOM 20800 C B ALA H 60 60.590 59.401 59.993 1.00 20										
ATOM 20781 CB ASP H 57										
ATOM 20782 CG ASP H 57 53.538 55.405 57.321 1.00166.34 6 ATOM 20784 OD2 ASP H 57 54.461 54.755 57.856 1.00164.60 8 ATOM 20785 C ASP H 57 53.189 56.542 57.706 1.00168.33 8 ATOM 20785 C ASP H 57 54.702 53.370 55.286 1.00 69.56 6 ATOM 20787 N PRO H 58 54.846 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 54.846 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 53.734 53.009 53.018 1.00126.29 6 ATOM 20789 CA PRO H 58 56.132 53.174 53.261 1.00127.10 6 ATOM 20790 CB PRO H 58 55.714 53.109 51.796 1.00127.10 6 ATOM 20791 CG PRO H 58 55.714 53.109 51.796 1.00127.10 6 ATOM 20792 C PRO H 58 57.033 54.375 53.549 1.00174.62 8 ATOM 20793 O PRO H 58 58.243 54.321 53.325 1.00174.62 8 ATOM 20795 CA ASN H 59 56.438 55.455 54.041 1.00 50.78 7 ATOM 20795 CA ASN H 59 56.286 57.742 54.356 1.00 48.68 6 ATOM 20797 CG ASN H 59 56.842 59.120 54.901 1.00108.47 6 ATOM 20798 OD1 ASN H 59 57.139 59.683 53.852 1.00108.47 6 ATOM 20799 ND2 ASN H 59 57.139 59.669 56.084 1.00108.55 7 ATOM 20800 C ASN H 59 57.139 59.669 56.084 1.00108.52 8 ATOM 20800 C ASN H 59 57.139 59.669 56.084 1.00108.55 7 ATOM 20800 C ASN H 59 57.139 59.669 56.084 1.00108.55 7 ATOM 20800 C ASN H 59 57.139 59.669 56.084 1.00108.55 7 ATOM 20800 C ASN H 60 66.618 55.975 55.850 1.00 48.68 6 ATOM 20800 C ASN H 60 66.618 55.975 55.850 1.00 49.58 6 ATOM 20800 C ASN H 60 66.618 55.975 55.850 1.00 49.58 6 ATOM 20801 C ALA H 60 66.886 56.995 56.299 54.970 1.00 93.90 7 ATOM 20802 N ALA H 60 66.886 56.995 56.299 1.00 51.76 6 ATOM 20805 C ALA H 61 60.849 60.739 57.044 1.00 27.29 6 ATOM 20806 C ALA H 61 60.849 60.739 57.044 1.00 27.29 6 ATOM 20807 N VAL H 61 62.58.996 58.707 58.524 1.00 46.66 8 ATOM 20808 CA VAL H 61 60.596 59.401 59.963 1.00 46.66 8 ATOM 20812 C VAL H 61 60.596 59.401 59.963 1.00 40.66 8 ATOM 20813 CG THR H 62 58.996 58.707 58.524 1.00 32.73 7 ATOM 20814 N THR H 62 58.996 58.707 58.524 1.00 32.73 7 ATOM 20815 CA THR H 62 58.596 57.705 60.111 1.00 92.33 8 ATOM 20810 C THR H 62 58.596 57.705 60.111 1.00 92.71 6 ATOM 20812 C THR H 62 58.596 57.705 60.111 1.00 92.73 8 AT	ATOM		CA							
ATOM 20784 OD2 ASP H 57	ATOM	20781	CB	ASP H						
ATOM 20784 OD2 ASP H 57 54.702 53.370 55.286 1.00168.33 8 ATOM 20786 O ASP H 57 54.702 53.370 55.286 1.00168.33 8 ATOM 20786 O ASP H 57 55.667 53.530 56.029 1.00 70.12 8 ATOM 20787 N PRO H 58 54.846 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 53.734 53.009 53.018 1.00126.29 6 ATOM 20789 CA PRO H 58 56.132 53.174 53.261 1.00175.53 6 ATOM 20790 CB PRO H 58 55.714 53.109 51.796 1.00127.10 6 ATOM 20791 CG PRO H 58 55.714 53.109 51.796 1.00127.10 6 ATOM 20792 C PRO H 58 57.033 54.375 53.549 1.00174.24 6 ATOM 20793 O PRO H 58 58.243 54.321 53.325 1.00174.62 8 ATOM 20795 CA ASN H 59 56.438 55.455 54.041 1.00 50.78 7 ATOM 20795 CA ASN H 59 56.438 55.455 54.041 1.00 50.78 7 ATOM 20796 CB ASN H 59 56.842 59.120 54.901 1.00108.47 6 ATOM 20797 CG ASN H 59 55.842 59.120 54.901 1.00108.47 6 ATOM 20798 OD1 ASN H 59 55.842 59.120 54.901 1.00108.47 6 ATOM 20799 ND2 ASN H 59 57.042 59.669 56.084 1.00108.55 7 ATOM 20800 C ASN H 59 58.237 56.349 55.402 1.00 48.68 6 ATOM 20801 O ASN H 59 58.237 56.349 55.402 1.00 40.85 6 ATOM 20802 N ALA H 60 60.618 55.975 55.850 1.00 90.64 6 ATOM 20803 CA ALA H 60 61.855 56.29 54.970 1.00 90.64 6 ATOM 20804 CB ALA H 60 61.855 56.29 54.970 1.00 90.64 6 ATOM 20805 C ALA H 61 60.866 56.995 56.094 1.00 90.64 6 ATOM 20806 C ALA H 60 61.855 59.575 55.850 1.00 49.58 6 ATOM 20807 N VAL H 61 61.156 59.337 57.622 1.00 48.32 6 ATOM 20808 CA VAL H 61 60.590 59.401 59.669 1.00 40.666 8 ATOM 20808 C ALA H 60 60.866 56.995 56.094 1.00 48.32 6 ATOM 20808 C ALA H 61 60.590 59.401 59.663 1.00 48.32 6 ATOM 20812 C VAL H 61 60.590 59.401 59.663 1.00 49.58 6 ATOM 20812 C VAL H 61 60.590 59.401 59.663 1.00 40.666 8 ATOM 20813 O VAL H 61 60.590 59.401 59.663 1.00 40.666 8 ATOM 20814 N THR H 62 58.996 58.707 58.524 1.00 32.73 7 ATOM 20815 CA THR H 62 58.996 58.707 58.524 1.00 32.73 7 ATOM 20816 CB THR H 62 56.565 57.705 60.111 1.00 92.33 8 ATOM 20817 OG1 THR H 62 58.5996 58.707 58.524 1.00 32.73 7 ATOM 20812 C THR H 62 58.5996 58.707 58.524 1.00 32.73 7 ATOM 20812 C THR H 62 58.5996 58.707 58.524 1.00 32.73 7 ATOM	MOTA	20782	CG	ASP H	57	53.538	55.405	57.321	1.00166.34	6
ATOM 20784 OD2 ASP H 57 54.702 53.189 56.542 57.706 1.00168.33 8 ATOM 20786 O ASP H 57 54.702 53.370 55.286 1.00 69.56 6 ATOM 20786 O ASP H 57 55.667 53.530 56.029 1.00 70.12 8 ATOM 20787 N PRO H 58 54.846 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 54.846 53.197 53.261 1.00175.82 7 ATOM 20789 CA PRO H 58 56.132 53.174 53.261 1.00175.83 6 ATOM 20790 CB PRO H 58 55.714 53.109 51.796 1.00127.10 6 ATOM 20791 CG PRO H 58 55.714 53.109 51.796 1.00127.11 6 ATOM 20792 C PRO H 58 58.243 54.321 53.325 1.00174.24 6 ATOM 20793 O PRO H 58 58.243 54.321 53.325 1.00174.24 6 ATOM 20793 O PRO H 58 58.243 55.455 54.041 1.00 50.78 7 ATOM 20795 CA ASN H 59 56.438 55.455 54.041 1.00 50.78 7 ATOM 20797 CG ASN H 59 56.842 59.120 54.901 1.0010.668 6 ATOM 20796 CB ASN H 59 56.842 59.120 54.901 1.0010.847 6 ATOM 20799 ND2 ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ASN H 59 58.237 56.349 55.095 1.0010.855 7 ATOM 20801 O ASN H 59 58.237 56.349 55.095 1.0010.855 7 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ASN H 59 58.237 56.349 55.005 1.00 48.68 6 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.0010.855 7 ATOM 20800 C ALA H 60 60.618 55.975 55.850 1.00 49.58 6 ATOM 20800 C ALA H 60 60.866 56.995 56.097 1.00 49.58 6 ATOM 20800 C ALA H 60 60.866 56.995 56.097 1.00 49.58 6 ATOM 20801 C ALA H 60 60.866 56.995 56.997 1.00 47.13 8 ATOM 20805 C ALA H 60 60.866 56.995 56.997 1.00 47.13 6 ATOM 20815 C ALA H 61 60.590 59.4915 56.299 1.00 46.60 8 ATOM 20810 CG1 VAL H 61 60.590 59.401 59.963 1.00 46.60 8 ATOM 20810 CG1 VAL H 61 60.590 59.401 59.561 1.00 40.00 2.33 8 ATOM 20815 C ALA H 62 55.655 57.705 60.111 1.00 92.33 8 ATOM 20815 C ATH H 62 56.565 57.705 60.111 1.00 92.33 8 ATOM 20810 CG1 VAL H 61 62.509 59.401 59.963 1.00 2.33 8 A	ATOM	20783	OD1	ASP H	57	54.461	54.755	57.856	1.00164.60	8
ATOM 20785 C ASP H 57 55.667 53.370 55.286 1.00 69.56 6 ATOM 20786 O ASP H 57 55.667 53.530 56.029 1.00 70.12 8 ATOM 20787 N PRO H 58 54.846 53.197 53.965 1.00175.82 7 ATOM 20788 CD PRO H 58 54.846 53.197 53.965 1.00175.82 7 ATOM 20789 CA PRO H 58 56.132 53.174 53.261 1.00126.29 6 ATOM 20790 CB PRO H 58 55.714 53.109 51.796 1.00127.10 6 ATOM 20791 CG PRO H 58 55.714 53.174 53.261 1.00175.53 6 ATOM 20792 C PRO H 58 55.714 53.174 53.261 1.00127.11 6 ATOM 20792 C PRO H 58 57.033 54.375 53.595 1.00174.24 6 ATOM 20793 O PRO H 58 58.243 54.321 53.325 1.00174.62 8 ATOM 20794 N ASN H 59 56.438 55.455 54.041 1.00 50.78 7 ATOM 20795 CA ASN H 59 56.226 57.742 54.356 1.00 48.68 6 ATOM 20796 CB ASN H 59 56.842 59.120 54.901 1.00108.47 6 ATOM 20797 CG ASN H 59 57.139 59.683 53.852 1.00109.20 8 ATOM 20798 OD1 ASN H 59 57.139 59.683 53.852 1.00109.20 8 ATOM 20800 C ASN H 59 57.042 59.669 56.084 1.00108.47 6 ATOM 20801 O ASN H 59 58.237 56.349 55.402 1.00 46.84 6 ATOM 20801 O ASN H 59 58.237 56.349 55.402 1.00 46.84 6 ATOM 20802 N ALA H 60 60.886 56.995 56.974 1.00 93.90 7 ATOM 20803 CA ALA H 60 60.886 56.995 56.974 1.00 93.90 7 ATOM 20804 CB ALA H 60 60.886 56.995 56.974 1.00 88.46 6 ATOM 20805 C ALA H 60 61.875 55.758 55.005 1.00 49.88 6 ATOM 20806 C ALA H 60 61.875 55.758 55.005 1.00 49.88 6 ATOM 20807 N VAL H 61 60.849 60.739 57.044 1.00 88.46 6 ATOM 20808 CA VAL H 61 60.849 60.739 57.044 1.00 88.32 6 ATOM 20808 CA VAL H 61 60.219 59.146 58.813 1.00 46.66 8 ATOM 20811 CG2 VAL H 61 62.59.896 58.707 58.524 1.00 32.73 7 ATOM 20812 C VAL H 61 62.59.896 58.707 58.524 1.00 32.73 7 ATOM 20814 N THR H 62 56.239 58.408 57.877 1.00 26.76 6 ATOM 20815 CA THR H 62 56.239 58.408 57.877 1.00 26.76 6 ATOM 20814 N THR H 62 56.555 57.705 60.111 1.00 92.71 6 ATOM 20812 N THR H 62 58.898 57.752 60.730 1.00 28.54 6 ATOM 20812 N THR H 62 58.898 57.752 60.730 1.00 28.54 6 ATOM 20812 N THR H 62 58.898 57.752 60.730 1.00 27.90 8 ATOM 20820 N THR H 62 58.898 57.752 60.730 1.00 27.90 8			OD2	ASP H	57	53.189	56.542	57.706	1.00168.33	8
ATOM 20786 O ASP H 57										
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ATOM 20797 CG ASN H 59 56.842 59.120 54.901 1.00108.47 6 ATOM 20798 OD1 ASN H 59 57.139 59.683 53.852 1.00109.20 8 ATOM 20799 ND2 ASN H 59 57.042 59.669 56.084 1.00108.55 7 ATOM 20800 C ASN H 59 58.237 56.349 55.402 1.00 46.84 6 ATOM 20801 O ASN H 59 57.916 56.157 56.575 1.00 47.13 8 ATOM 20802 N ALA H 60 59.495 56.299 54.970 1.00 93.90 7 ATOM 20803 CA ALA H 60 60.618 55.975 55.850 1.00 90.64 6 ATOM 20804 CB ALA H 60 61.875 55.758 55.005 1.00 49.58 6 ATOM 20805 C ALA H 60 60.886 56.995 56.974 1.00 88.46 6 ATOM 20806 O ALA H 60 61.875 55.758 55.005 1.00 49.58 6 ATOM 20806 O ALA H 61 60.936 58.280 56.629 1.00 51.76 7 ATOM 20808 CA VAL H 61 60.936 58.280 56.629 1.00 51.76 7 ATOM 20809 CB VAL H 61 60.849 60.739 57.044 1.00 27.29 6 ATOM 20810 CG1 VAL H 61 62.109 61.396 56.500 1.00 26.01 6 ATOM 20812 C VAL H 61 60.219 59.146 58.813 1.00 46.60 6 ATOM 20813 O VAL H 61 60.219 59.146 58.813 1.00 46.60 6 ATOM 20816 CB THR H 62 58.996 58.775 58.524 1.00 32.73 7 ATOM 20816 CB THR H 62 56.239 58.408 57.877 1.00 22.33 8 ATOM 20816 CB THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20816 CB THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20816 CB THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20816 CB THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20818 CG2 THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20818 CG2 THR H 62 58.598 57.752 60.730 1.00 28.54 6 ATOM 20816 CB THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20816 CB THR H 62 58.598 57.752 60.730 1.00 28.54 6 ATOM 20817 OG1 THR H 62 58.598 57.752 60.730 1.00 28.54 6 ATOM 20818 CG2 THR H 62 58.598 57.752 60.730 1.00 28.54 6 ATOM 20820 O THR H 62 58.818 58.321 60.730 1.00 27.90 8 ATOM 20821 N TRP H 63 58.878 56.470 60.518 1.00 47.29 7 ATOM 20821 N TRP H 63 58.878 56.470 60.518 1.00 47.29 7 ATOM 20822 CA TRP H 63 59.441 55.649 61.571 1.00 47.12 6	MOTA	20796	CB	ASN H	59	56.226	57.742	54.893	1.00106.68	6
ATOM 20798 OD1 ASN H 59	MOTA	20797	CG		59	56.842	59.120	54.901	1.00108.47	6
ATOM 20799 ND2 ASN H 59 57.042 59.669 56.084 1.00108.55 7 ATOM 20800 C ASN H 59 58.237 56.349 55.402 1.00 46.84 6 ATOM 20802 N ALA H 60 59.495 56.299 54.970 1.00 93.90 7 ATOM 20803 CA ALA H 60 60.618 55.975 55.850 1.00 47.13 8 ATOM 20804 CB ALA H 60 61.875 55.758 55.005 1.00 49.58 6 ATOM 20805 C ALA H 60 60.886 56.995 56.974 1.00 88.46 6 ATOM 20806 O ALA H 60 61.875 55.758 55.005 1.00 49.58 6 ATOM 20807 N VAL H 61 60.936 58.280 56.629 1.00 51.76 7 ATOM 20808 CA VAL H 61 60.936 58.280 56.629 1.00 51.76 7 ATOM 20809 CB VAL H 61 60.849 60.739 57.044 1.00 27.29 6 ATOM 20810 CG1 VAL H 61 62.109 61.396 56.500 1.00 26.01 6 ATOM 20811 CG2 VAL H 61 60.219 59.146 58.813 1.00 26.01 6 ATOM 20812 C VAL H 61 60.219 59.146 58.813 1.00 46.60 6 ATOM 20813 O VAL H 61 60.590 59.401 59.963 1.00 46.66 8 ATOM 20816 CB THR H 62 58.996 58.707 58.524 1.00 32.73 7 ATOM 20816 CB THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20817 OG1 THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20819 C THR H 62 58.598 57.752 60.730 1.00 28.71 6 ATOM 20819 C THR H 62 58.598 57.752 60.730 1.00 28.71 6 ATOM 20819 C THR H 62 58.818 58.321 61.798 1.00 47.29 7 ATOM 20820 O THR H 62 58.818 58.321 61.798 1.00 47.29 7 ATOM 20821 N TRP H 63 58.818 58.321 61.798 1.00 47.29 7 ATOM 20821 N TRP H 63 58.818 58.321 61.798 1.00 47.29 7									1.00109.20	8
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ATOM 20816 CB THR H 62 56.754 57.746 59.039 1.00 91.22 6 ATOM 20817 OG1 THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20818 CG2 THR H 62 55.655 57.705 60.111 1.00 92.71 6 ATOM 20819 C THR H 62 58.598 57.752 60.730 1.00 28.54 6 ATOM 20820 O THR H 62 58.818 58.321 61.798 1.00 27.90 8 ATOM 20821 N TRP H 63 58.878 56.470 60.518 1.00 47.29 7 ATOM 20822 CA TRP H 63 59.441 55.649 61.571 1.00 47.12 6	ATOM	20815	CA	THR H	62	57.996	58.512	59.564	1.00 30.58	6
ATOM 20817 OG1 THR H 62 56.239 58.408 57.877 1.00 92.33 8 ATOM 20818 CG2 THR H 62 55.655 57.705 60.111 1.00 92.71 6 ATOM 20819 C THR H 62 58.598 57.752 60.730 1.00 28.54 6 ATOM 20820 O THR H 62 58.818 58.321 61.798 1.00 27.90 8 ATOM 20821 N TRP H 63 58.878 56.470 60.518 1.00 47.29 7 ATOM 20822 CA TRP H 63 59.441 55.649 61.571 1.00 47.12 6										
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MIUN ZUOZO CD INF N OO 00.002 04.002 00.950 1.00 00.003 0										
	AIOM	20023	CD	IVL U	03	00.002	34.303	00.550	1.00 33.03	U

ATOM	20824	CG	TRP H	63	58.96	1 53.500	60.430	1.00 56.38	6
ATOM	20825	CD2	TRP H	63	58.57		60.912	1.00 56.28	6
MOTA	20826	CE2	TRP H	63	57.59		60.028	1.00 56.76	6
MOTA	20827	CE3	TRP H	63	58.95		62.010	1.00 56.09	6
MOTA	20828	CD1	TRP H	63	58.22		59.313	1.00 57.16	6
ATOM	20829	NE1	TRP H	63	57.403		59.059	1.00 57.27	7
MOTA	20830	CZ2	TRP H	63	56.999	9 50.471	60.201	1.00 57.29	6
MOTA	20831	CZ3	TRP H	63	58.358	3 50.197	62.184	1.00 56.08	6
MOTA	20832	CH2	TRP H	63	57.392		61.283	1.00 56.89	6
MOTA	20833	С	TRP H	63	60.53		62.283	1.00 47.29	6
MOTA	20834	0	TRP H	63	60.43		63.482	1.00 46.74	8
MOTA	20835	N	ALA H	64	61.57		61.533	1.00 43.86	7
MOTA	20836	CA	ALA H	64	62.69		62.098	1.00 44.72	6
MOTA	20837	CB	ALA H	64	63.433		61.004	1.00 13.87	6
ATOM	20838	C	ALA H	64	62.248		63.183	1.00 45.71	6
MOTA	20839	O	ALA H	64	62.508		64.361	1.00 46.59	8
MOTA MOTA	20840 20841	N CA	MET H MET H	65 65	61.563 61.11		62.792 63.770	1.00 63.70 1.00 63.47	7 6
ATOM	20841	CB	MET H	65	60.13		63.770	1.00 63.47	6
ATOM	20843	CB	MET H	65	60.81		62.230	1.00 47.33	6
ATOM	20844	SD	MET H	65	59.66		61.419	1.00 44.79	16
MOTA	20845	CE	MET H	65	59.613		59.784	1.00 42.87	6
ATOM	20846	C	MET H	65	60.49		64.985	1.00 64.92	6
MOTA	20847	Ō	MET H	65	60.586		66.093	1.00 65.17	8
MOTA	20848	N	LYS H	66	59.893	3 58.663	64.788	1.00 59.31	7
ATOM	20849	CA	LYS H	66	59.27	57.944	65.894	1.00 61.28	6
MOTA	20850	CB	LYS H	66	58.04		65.399	1.00151.34	6
MOTA	20851	CG	LYS H	66	56.948		64.827	1.00153.48	6
MOTA	20852	CD	LYS H	66	55.742		64.380	1.00154.12	6
ATOM	20853	CE	LYS H	66	54.68		63.748	1.00154.76	6
ATOM	20854	NZ	LYS H	66	53.50		63.263	1.00156.89	7
MOTA	20855	C	LYS H	66	60.25		66.551 67.752	1.00 61.91 1.00 62.08	6 8
ATOM ATOM	20856 20857	O N	LYS H GLU H	66 67	60.19 61.18		65.747	1.00103.46	7
ATOM	20858	CA	GLU H	67	62.203		66.198	1.00103.40	6
ATOM	20859	CB	GLU H	67	62.72		64.975	1.00104.40	6
ATOM	20860	CG	GLU H	67	63.84		65.192	1.00 71.76	6
ATOM	20861	CD	GLU H	67	64.382		63.870	1.00 73.23	6
ATOM	20862	OE1	GLU H	67	63.73		63.225	1.00 72.69	8
MOTA	20863	OE2	GLU H	67	65.458		63.465	1.00 75.45	8
MOTA	20864	C	GLU H	67	63.32	7 56.337	66.879	1.00104.13	6
MOTA	20865	Ο	GLU H	67	64.159		67.588	1.00104.77	8
MOTA	20866	N	LEU H	68	63.32		66.669	1.00 56.33	7
ATOM	20867	CA	LEU H	68	64.34		67.230	1.00 56.02	6
MOTA	20868	CB	LEU H	68	64.668		66.212	1.00 69.52	6
MOTA	20869	CG	LEU H	68	65.819		66.479	1.00 70.25	6
MOTA	20870	CD1 CD2		68 68	67.132 65.928		66.657	1.00 70.86 1.00 69.91	6 6
MOTA MOTA	20871 20872	CD2	LEU H LEU H	68	63.87		65.313 68.554	1.00 55.23	6
ATOM	20872	0	LEU H	68	64.683		69.416	1.00 54.45	8
ATOM	20874	N	LEU H	69	62.56		68.709	1.00 33.13	7
MOTA	20875	CA	LEU H	69	62.004		69.915	1.00 33.13	6
MOTA	20876	СВ	LEU H	69	60.55		69.683	1.00 55.55	6
ATOM	20877	CG	LEU H	69	60.00		70.785	1.00 56.38	6
ATOM	20878		LEU H	69	60.64		70.648	1.00 56.76	6
MOTA	20879	CD2	LEU H	69	58.492	2 61.190	70.683	1.00 56.14	6

ATOM	20880	C	LEU H	69 60	62.067 61.862	58.742 58.985	70.951 72.143	1.00 35.09 1.00 35.06	6 8
ATOM ATOM	20881 20882	N O	LEU H THR H	69 70	62.351	57.535	70.461	1.00 35.00	7
ATOM	20883	CA	THR H	70	62.451	56.313	71.259	1.00 66.19	6
ATOM	20884	CB	THR H	70	62.533	55.076	70.340	1.00 57.53	6
ATOM	20885	OG1	THR H	70	61.577	55.199	69.279	1.00 56.80	8
ATOM	20886	CG2	THR H	70	62.238	53.812	71.130	1.00 57.67	6
ATOM	20887	C	THR H	70	63.657	56.290	72.203	1.00 67.12	6
ATOM	20888	0	THR H	70	63.702	57.028	73.181	1.00 66.97	8
ATOM	20889	N	GLY H	71	64.635	55.442 55.377	71.916	1.00 87.16	7
ATOM ATOM	20890 20891	CA C	GLY H	71 71	65.794 67.070	54.978	72.786 72.076	1.00 89.30 1.00 91.08	6 6
ATOM	20892	0	GLY H	71	68.146	55.515	72.350	1.00 90.90	8
ATOM	20893	N	ARG H	72	66.953	54.033	71.154	1.00 70.67	7
ATOM	20894	CA	ARG H	72	68.107	53.562	70.414	1.00 72.13	6
ATOM	20895	CB	ARG H	72	67.709	52.357	69.558	1.00115.78	6
ATOM	20896	CG	ARG H	72	67.104	51.217	70.380	1.00116.51	6
MOTA	20897	CD	ARG H	72	68.086	50.737	71.446	1.00117.76	6
ATOM	20898	$\sum_{n=1}^{\infty}$	ARG H	72	67.431	50.255	72.663	1.00116.94	7
ATOM	20899	CZ	ARG H	72 72	68.080 69.403	49.898	73.769 73.817	1.00115.88 1.00115.31	6 7
ATOM ATOM	20900 20901	NH1 NH2	ARG H ARG H	72 72	67.403	49.965 49.481	74.834	1.00115.31	7
ATOM	20901	C	ARG H	72	68.698	54.668	69.553	1.00110.03	6
ATOM	20903	Ö	ARG H	72	68.372	55.842	69.719	1.00 73.18	8
ATOM	20904	N	LEU H	73	69.581	54.283	68.641	1.00 78.66	7
MOTA	20905	CA	LEU H	73	70.234	55.231	67.748	1.00 79.90	6
MOTA	20906	СВ	LEU H	73	69.210	56.225	67.179	1.00 62.87	6
ATOM	20907	CG	LEU H	73	67.857	55.752	66.639	1.00 63.54	6
MOTA	20908	CD1	LEU H	73 73	67.295	56.824	65.722	1.00 62.90	6 6
ATOM ATOM	20909 20910	CD2 C	LEU H LEU H	73 73	68.014 71.342	54.458 56.013	65.868 68.460	1.00 63.93 1.00 81.03	6
ATOM	20910	0	LEU H	73	71.413	56.040	69.686	1.00 81.93	8
MOTA	20912	Ň	ALA H	74	72.199	56.652	67.673	1.00 73.20	7
MOTA	20913	CA	ALA H	74	73.294	57.463	68.195	1.00 74.49	6
MOTA	20914	CB	ALA H	74	74.435	56.571	68.633	1.00131.27	6
MOTA	20915	C	ALA H	74	73.750	58.410	67.077	1.00 75.22	6
ATOM	20916	0	ALA H	74	73.253	58.310	65.953	1.00 75.67	8
MOTA	20917	N	PHE H PHE H	75 75	74.681	59.321 60.249	67.364 66.339	1.00 51.42 1.00 52.35	7 6
ATOM ATOM	20918 20919	CA CB	PHE H	75 75	75.147 73.970	61.078	65.825	1.00 32.33	6
ATOM	20920	CG	PHE H	75	72.916	61.365	66.864	1.00111.16	6
MOTA	20921	CD1		75	73.256	61.600	68.193	1.00114.86	6
MOTA	20922	CD2		75	71.581	61.473	66.488	1.00113.45	6
MOTA	20923		PHE H	75	72.281	61.946	69.128	1.00115.47	6
MOTA	20924	CE2	PHE H	75	70.603	61.818	67.411	1.00114.47	6
ATOM	20925	CZ	PHE H	75	70.954	62.057	68.735	1.00115.44	6
MOTA	20926	С	PHE H	75 75	76.265 76.148	61.191 61.855	66.774 67.794	1.00 52.45 1.00 53.14	6 8
${f ATOM}$	20927 20928	O N	PHE H GLY H	75 76	77.327	61.264	65.971	1.00 33.14	7
MOTA	20929	CA	GLY H	76	78.469	62.126	66.259	1.00 70.79	6
ATOM	20930	C	GLY H	76	79.666	61.701	65.419	1.00 71.08	6
MOTA	20931	0	GLY H	76	79.619	61.775	64.193	1.00 71.12	8
MOTA	20932	N	GLU H	77	80.751	61.279	66.059	1.00 77.05	7
MOTA	20933	CA	GLU H	77	81.915	60.797	65.319	1.00 78.21	6
MOTA	20934	CB	GLU H	77 77	83.201	61.459	65.814 65.072	1.00 92.11 1.00 93.17	6 6
ATOM	20935	CG	GLU H	1 1	84.450	60.998	03.072	1.00 33.1/	O

ATOM	20936	CD	GLU H	77	84.416	61.299	63.570	1.00 94.00	6
ATOM	20937	OE1	GLU H	77	83.386	61.034	62.910	1.00 94.23	8
ATOM	20938	OE2	GLU H	77	85.437	61.788	63.041	1.00 94.19	8
MOTA	20939	С	GLU H	77	81.953	59.289	65.591	1.00 79.04	6
ATOM	20940	0	GLU H	77	82.931	58.592	65.293	1.00 79.54	8
ATOM	20941	N ~-	ASN H	78	80.848	58.807	66.154	1.00125.12	7
ATOM	20942	CA	ASN H	78	80.649	57.411	66.501	1.00125.42	6
MOTA	20943	CB	ASN H	78 70	79.417	57.293 55.925	67.401	1.00204.16	6
ATOM ATOM	20944 20945	CG OD1	ASN H ASN H	78 78	78.783 78.084	55.601	67.345 66.388	1.00204.44 1.00202.88	6 8
ATOM	20945	ND2	ASN H	78	79.027	55.109	68.365	1.00202.88	7
ATOM	20947	C	ASN H	78	80.516	56.487	65.300	1.00203.31	6
ATOM	20948	Õ	ASN H	78	80.052	56.886	64.236	1.00127.62	8
ATOM	20949	N	LEU H	79	80.934	55.243	65.511	1.00110.62	7
ATOM	20950	CA	LEU H	79	80.917	54.179	64.510	1.00111.17	6
MOTA	20951	CB	LEU H	79	79.576	54.133	63.766	1.00132.86	6
MOTA	20952	CG	LEU H	79	78.371	53.654	64.588	1.00132.88	6
MOTA	20953	CD1	LEU H	79	77.438	52.894	63.681	1.00133.18	6
MOTA	20954	CD2	LEU H	79	78.801	52.732	65.731	1.00132.83	6
ATOM	20955	C	LEU H	79	82.072	54.277	63.516	1.00111.11	6
ATOM	20956	0	LEU H	79	82.439 82.638	53.292 55.473	62.891 63.403	1.00111.12 1.00122.68	8 7
ATOM ATOM	20957 20958	N CA	ALA H ALA H	80 80	83.764	55.783	62.527	1.00122.00	6
ATOM	20959	CB	ALA H	80	85.076	55.429	63.239	1.00123.10	6
ATOM	20960	C	ALA H	80	83.764	55.228	61.094	1.00123.32	6
ATOM	20961	Ö	ALA H	80	83.403	55.942	60.163	1.00123.48	8
ATOM	20962	N	PRO H	81	84.168	53.958	60.888	1.00118.44	7
MOTA	20963	CD	PRO H	81	84.672	52.906	61.792	1.00173.71	6
MOTA	20964	CA	PRO H	81	84.159	53.477	59.499	1.00118.82	6
MOTA	20965	CB	PRO H	81	84.817	52.101	59.606	1.00174.43	6
MOTA	20966	CG	PRO H	81	84.440	51.658	60.987	1.00174.33	6
ATOM	20967	C	PRO H	81	82.797	53.423	58.813	1.00118.74	6
MOTA	20968 20969	O	PRO H	81 82	82.007 82.532	52.506 54.417	59.033 57.976	1.00118.56 1.00 90.20	8 7
MOTA MOTA	20909	N CA	ALA H ALA H	82	81.279	54.417	57.242	1.00 90.20	6
ATOM	20971	CB	ALA H	82	81.275	55.693	56.310	1.00 18.02	6
ATOM	20972	C	ALA H	82	81.218	53.176	56.445	1.00 91.69	6
MOTA	20973	Ō	ALA H	82	80.147	52.632	56.167	1.00 91.55	8
MOTA	20974	N	ASP H	83	82.400	52.683	56.094	1.00208.87	7
MOTA	20975	CA	ASP H	83	82.533	51.445	55.345	1.00208.87	6
MOTA	20976	CB	ASP H	83	84.012	51.162	55.069	1.00201.99	6
ATOM	20977	CG	ASP H	83	84.698	52.304	54.344	1.00202.55	6
MOTA	20978		ASP H ASP H	83	84.393	52.526 52.980	53.153	1.00203.98 1.00201.53	8
MOTA MOTA	20979 20980	C C	ASP H	83 83	85.537 81.948	50.317	54.973 56.184	1.00201.33	8 6
ATOM	20981	0	ASP H	83	80.969	49.682	55.796	1.00208.87	8
MOTA	20982	N	ARG H	84	82.554	50.087	57.343	1.00 91.02	7
ATOM	20983	CA	ARG H	84	82.112	49.041	58.252	1.00 90.84	6
MOTA	20984	CB	ARG H	84	83.156	48.859	59.342	1.00129.70	6
MOTA	20985	CG	ARG H	84	84.554	48.797	58.770	1.00130.16	6
MOTA	20986	CD	ARG H	84	85.609	48.783	59.846	1.00130.44	6
ATOM	20987	NE	ARG H	84	86.939	48.922	59.268	1.00130.69	7
MOTA	20988	CZ	ARG H	84	88.046	49.088	59.980	1.00131.22	6 7
MOTA MOTA	20989 20990	NH1	ARG H ARG H	84 84	87.981 89.217	49.133 49.217	61.303 59.370	1.00131.11 1.00132.39	7
ATOM	20990	Nnz C	ARG H	84	80.766	49.217	58.859	1.00132.39	6
111 OT1	20001	C	11 (7)112	O 1	55.765	17.401	50.055	1.00 00.00	J

ATOM	20992	0	ARG H	84	80.185	48.674	59.655	1.00 90.08	8
ATOM ATOM	20993 20994	N CA	LEU H	85 85	80.286 79.012	50.599 51.111	58.473 58.945	1.00 94.70 1.00 94.79	7 6
ATOM	20995	CB	LEU H	85	78.971	52.632	58.794	1.00 58.74	6
ATOM	20996	ĊĠ	LEU H	85	77.645	53.320	59.129	1.00 58.15	6
ATOM	20997	CD1		85	77.346	53.162	60.610	1.00 58.00	6
MOTA	20998	CD2	LEU H	85	77.711	54.797	58.727	1.00 58.19	6
ATOM	20999	C	LEU H	85	77.923	50.466	58.102	1.00 95.17 1.00 95.24	6 8
ATOM ATOM	21000 21001	N O	LEU H ALA H	85 86	76.769 78.309	50.367 50.026	58.522 56.908	1.00 95.24	7
ATOM	21001	CA	ALA H	86	77.389	49.370	55.989	1.00163.48	6
ATOM	21003	CB	ALA H	86	77.351	50.113	54.661	1.00148.76	6
ATOM	21004	С	ALA H	86	77.845	47.934	55.773	1.00163.77	6
MOTA	21005	0	ALA H	86	77.064	47.075	55.367	1.00163.80	8
MOTA	21006	N	ALA H	87	79.120	47.681	56.037	1.00104.44	7
ATOM ATOM	21007 21008	CA CB	ALA H ALA H	87 87	79.664 81.168	46.341 46.348	55.876 56.136	1.00104.76 1.00143.84	6 6
ATOM	21008	С	ALA H	87	78.956	45.442	56.878	1.00143.04	6
ATOM	21010	Õ	ALA H	87	78.645	44.284	56.594	1.00104.28	8
MOTA	21011	N	ALA H	88	78.701	46.000	58.055	1.00 80.31	7
MOTA	21012	CA	ALA H	88	78.025	45.275	59.113	1.00 81.22	6
ATOM	21013	CB	ALA H	88	78.063 76.582	46.092 45.004	60.402 58.683	1.00112.51 1.00 81.94	6 6
ATOM ATOM	21014 21015	C O	ALA H ALA H	88 88	75.892	44.153	59.261	1.00 81.94	8
MOTA	21015	N	MET H	89	76.133	45.731	57.664	1.00 83.34	7
MOTA	21017	CA	MET H	89	74.782	45.564	57.145	1.00 85.09	6
MOTA	21018	CB	MET H	89	74.411	46.732	56.228	1.00155.16	6
MOTA	21019	CG	MET H	89	74.405	48.097	56.901	1.00156.58	6
ATOM	21020 21021	SD CE	MET H MET H	89 89	73.093 71.678	48.296 48.571	58.117 57.029	1.00157.37 1.00157.12	16 6
ATOM	21021	CE	MET H	89	74.712	44.255	56.360	1.00137.12	6
ATOM	21023	Ö	MET H	89	73.627	43.721	56.115	1.00 85.41	8
MOTA	21024	N	GLU H	90	75.877	43.746	55.963	1.00208.87	7
MOTA	21025	CA	GLU H	90	75.950	42.493	55.217	1.00208.87	6
ATOM ATOM	21026 21027	CB CG	GLU H GLU H	90 90	77.306 77.457	42.342 41.014	54.529 53.798	1.00136.26 1.00136.21	6 6
ATOM	21027	CD	GLU H	90	78.880	40.746	53.750	1.00136.54	6
ATOM	21029	OE1	GLU H	90	79.460	41.610	52.666	1.00137.49	8
MOTA	21030	OE2	GLU H	90	79.417	39.667	53.685	1.00136.05	8
ATOM	21031	C	GLU H	90	75.763	41.333	56.177	1.00208.87	6
ATOM	21032	0	GLU H	90	75.142	40.323	55.843 57.373	1.00208.87 1.00172.42	8 7
ATOM ATOM	21033 21034	N CA	ARG H ARG H	91 91	76.320 76.222	41.487 40.463	58.396	1.00172.42	6
ATOM	21034	CB	ARG H	91	76.926	40.931	59.678	1.00130.88	6
ATOM	21036	CG	ARG H	91	77.084	39.848	60.750	1.00131.31	6
ATOM	21037	CD	ARG H	91	77.854	40.355	61.973	1.00131.44	6
ATOM	21038	NE	ARG H	91	77.774	39.432	63.107	1.00131.71	7
ATOM ATOM	21039 21040	CZ MH1	ARG H ARG H	91 91	78.253 78.849	39.698 40.858	64.319 64.557	1.00131.97 1.00131.86	6 7
ATOM	21040	NH2	ARG H	91	78.127	38.813	65.299	1.00131.00	7
ATOM	21042	C	ARG H	91	74.746	40.185	58.658	1.00173.25	6
MOTA	21043	0	ARG H	91	74.389	39.146	59.207	1.00173.60	8
MOTA	21044	N	LEU H	92	73.892	41.117	58.241	1.00114.03	7
MOTA MOTA	21045 21046	CA CB	LEU H LEU H	92 92	72.446 72.007	40.987 41.810	58.419 59.635	1.00114.75 1.00107.98	6 6
ATOM	21048	CG	LEU H	92	71.703	41.074	60.951	1.00107.33	6
		-							

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7	MOTA	21048		LEU		92	72.560	39.839	61.125	1.00108.03	6
2	MOTF	21049	CD2	LEU	Η	92	71.926	42.031	62.106	1.00108.24	6
7	MOTF	21050	С	LEU	Η	92	71.651	41.395	57.162	1.00115.02	6
	MOTA	21051	0	LEU		92	71.385	42.576	56.922	1.00115.36	8
	MOTA	21052	Ň	ALA		93	71.286	40.377	56.381	1.00107.07	7
						93	70.538	40.474	55.121	1.00107.38	6
	MOTA	21053	CA	ALA							
	MOTA	21054	СВ	ALA		93	69.413	39.437	55.123	1.00103.93	6
	MOTA	21055	С	ALA		93	69.974	41.823	54.676	1.00107.83	6
7	MOTP	21056	0	ALA	Η	93	69.007	42.319	55.245	1.00107.51	8
7	MOTF	21057	N	PRO	Η	94	70.584	42.432	53.645	1.00125.30	7
Z	MOTF	21058	CD	PRO	Η	94	72.012	42.193	53.357	1.00176.05	6
	MOTA	21059	CA		Н	94	70.168	43.723	53.083	1.00126.22	6
	MOTA	21060	CB		H	94	71.460	44.514	53.110	1.00176.57	6
	MOTA	21061	CG	PRO		94	72.439	43.473	52.635	1.00176.89	6
			C			94	69.625	43.553	51.651	1.00176.83	6
	ATOM	21062		PRO							
	MOTA	21063	0	PRO		94	68.743	42.733	51.405	1.00126.67	8
	MOTA	21064	N	ALA		95	70.157	44.344	50.720	1.00156.49	7
Z	MOTA	21065	CA	ALA		95	69.785	44.281	49.304	1.00157.56	6
Z	\mathtt{MOT}^{F}	21066	CB	ALA	Η	95	70.291	42.973	48.704	1.00137.99	6
7	$\mathtt{MOT}F$	21067	С	ALA	Η	95	68.308	44.456	48.957	1.00158.51	6
Z	MOTF	21068	0	ALA	Η	95	67.429	44.246	49.791	1.00158.85	8
	MOTA	21069	N	ALA		96	68.057	44.830	47.704	1.00208.87	7
	MOTA	21070	CA	ALA		96	66.704	45.037	47.194	1.00208.87	6
	MOTA	21071	CB	ALA		96	66.488	46.510	46.870	1.00128.28	6
	MOTA	21071	C	ALA		96	66.479	44.185	45.945	1.00208.87	6
							67.086	43.124	45.799	1.00208.87	8
	MOTA	21073	0	ALA		96					7
	MOTA	21074	N ~~	ALA		97	65.619	44.655	45.044	1.00160.31	
	MOTP	21075	CA	ALA		97	65.313	43.912	43.820	1.00160.01	6
Z	MOTP	21076	CB	ALA		97	63.929	43.288	43.932	1.00165.04	6
Z	\mathtt{MOT}^{F}	21077	С	ALA	Η	97	65.391	44.749	42.548	1.00159.89	6
Z	\mathtt{MOT}^{F}	21078	0	ALA	Η	97	65.117	45.950	42.564	1.00160.00	8
Z	MOTP	21079	N	GLU	H	98	65.756	44.101	41.444	1.00110.78	7
Z	MOTP	21080	CA	GLU	H	98	65.862	44.776	40.150	1.00110.73	6
	MOTA	21081	СВ	GLU		98	67.267	45.354	39.958	1.00111.96	6
	MOTA	21082	CG	GLU		98	67.793	46.113	41.160	1.00112.01	6
	MOTA	21083	CD	GLU		98	69.141	46.736	40.902	1.00112.19	6
	MOTA	21084	OE1	GLU		98	69.977	46.079	40.248	1.00111.88	8
	MOTA	21085	OE2		H	98	69.369	47.874	41.363	1.00113.13	8
		21085	C		H	98	65.553	43.817	38.999	1.00110.66	6
	MOTA										8
	MOTA	21087	0	GLU		98	65.243	42.639	39.275	1.00110.53	_
	MOTA	21088		GLU		98	65.625	44.257	37.832	1.00112.67	8
	MOTP	21089			I	1	45.303	87.748	42.601	1.00145.66	12
	MOTA	21090	ZN+2	ZN2		1	79.626	86.200	67.933	1.00 79.71	30
Z	MOTF	21091	CB	ALA	K	2		102.312	-39.510	1.00 22.98	6
Ž	MOTA	21092	С	ALA	K	2	151.505	104.365	-40.898	1.00 83.38	6
Z	MOTA	21093	0	ALA	K	2	151.175	103.658	-41.854	1.00 84.27	8
	MOTA	21094	N	ALA		2		104.457	-38.685	1.00 82.24	7
	MOTA	21095	CA	ALA		2		103.808	-39.477	1.00 82.79	6
	MOTA	21096	N	ALA		3		105.625	-41.035	1.00 51.82	7
	MOTA	21097	CA	ALA		3		106.267		1.00 51.87	6
								100.207		1.00101.03	6
	MOTA	21098	CB	ALA		3			-42.508	1.00101.03	6
	MOTA	21099	C	ALA		3		107.042			
	MOTA	21100	O	ALA		3	154.113	107.138		1.00 51.08	8
	MOTA	21101	N	ALA		4		107.602	-43.783	1.00125.85	7
	MOTA	21102	CA	ALA		4			-44.163	1.00126.96	6
Ž	MOTA	21103	CB	ALA	K	4	155.346	107.661	-45.247	1.00 55.29	6

MOTA

21159

CB

MOTA 21104 ALA K 4 154.047 109.740 -44.687 1.00126.86 6 C 21105 ALA K 4 152.916 109.822 -45.161 1.00127.60 8 MOTA 0 7 MOTA 21106 Ν ALA K 5 154.857 110.794 -44.597 1.00 32.02 ATOM 21107 CA ALA K 5 154.416 112.103 -45.090 1.00 33.06 6 5 ATOM 21108 CB ALA K 153.189 112.582 -44.302 1.00 19.54 5 155.498 113.172 -45.040 1.00 34.91 MOTA 21109 C ALA K 6 5 21110 ALA K 155.279 114.250 -44.471 1.00 34.68 8 MOTA 0 21111 ALA K 156.642 112.870 -45.656 1.00 98.60 7 6 MOTA N 157.816 113.753 -45.709 MOTA 21112 CA ALA K 6 1.00100.93 6 158.805 113.233 -46.750 MOTA 21113 CB ALA K 6 1.00 59.34 6 157.551 115.238 -45.963 ALA K 1.00102.61 MOTA 21114 C 6 6 21115 ALA K 6 156.952 115.616 -46.968 1.00103.52 8 MOTA 0 158.027 116.073 -45.044 7 ALA K 7 1.00 67.32 MOTA 21116 N 157.875 117.517 -45.135 MOTA 21117 ALA K 7 1.00 68.87 6 CA 21118 ALA K 7 157.396 118.086 -43.804 1.00 59.22 6 MOTA CB MOTA 21119 С ALA K 7 159.251 118.059 -45.479 1.00 70.43 6 7 160.210 117.286 -45.581 ATOM 21120 0 ALA K 1.00 70.10 8 21121 ALA K 159.345 119.381 -45.641 1.00 96.74 7 MOTA 8 Ν 21122 ALA K 160.602 120.031 -46.006 1.00 98.15 6 ATOM CA 8 160.624 120.282 -47.503 ATOM 21123 CB ALA K 8 1.00 53.20 6 ATOM 21124 С ALA K 8 160.909 121.336 -45.278 1.00 99.80 6 ATOM 21125 0 ALA K 8 161.739 121.374 -44.366 1.00100.81 8 1.00208.87 ATOM 21126 Ν ALA K 9 160.242 122.404 -45.705 7 9 160.441 123.740 -45.149 1.00208.87 ATOM 21127 CA ALA K 6 9 159.677 124.758 -45.998 1.00125.45 ATOM 21128 CB ALA K 6 ATOM 21129 С ALA K 9 160.070 123.913 -43.675 1.00208.87 6 21130 ALA K 9 159.044 124.520 -43.363 1.00208.87 8 ATOM 0 160.917 123.396 -42.785 7 MOTA 21131 ALA K 10 1.00 93.41 Ν ALA K 10 1.00 93.15 21132 CA 160.723 123.483 -41.337 6 ATOM 21133 CB ALA K 10 159.242 123.417 -40.976 1.00102.75 6 MOTA 161.457 122.343 -40.657 21134 С ALA K 10 1.00 93.40 6 MOTA 162.666 122.518 -40.399 1.00 93.15 MOTA 21135 0 ALA K 10 8 21136 OXT ALA K 10 160.818 121.292 -40.408 1.00101.68 8 MOTA MOTA 21137 CB ALA L 20 150.457 116.704 -34.486 1.00 66.36 6 21138 C ALA L 20 148.118 115.853 -34.285 1.00151.44 6 MOTA 1.00151.99 21139 ALA L 20 148.618 114.738 -34.438 8 MOTA 0 7 ATOM 21140 Ν ALA L 20 148.904 117.702 -32.833 1.00151.58 149.006 117.084 -34.186 ATOM 21141 CA ALA L 20 1.00151.20 6 21142 ALA L 21 146.808 116.070 -34.187 1.00 57.67 7 ATOM N ATOM 21143 CA ALA L 21 145.801 115.009 -34.274 1.00 57.13 6 146.357 113.798 -35.032 1.00 33.92 MOTA 21144 CB ALA L 21 6 21145 ALA L 21 145.269 114.562 -32.922 1.00 57.24 6 MOTA С 1.00 56.89 144.757 115.363 -32.147 MOTA 21146 ALA L 21 8 0 7 -32.662MOTA 21147 N ALA L 22 145.388 113.265 1.00126.91 MOTA 21148 ALA L 22 144.933 112.655 -31.4211.00128.43 6 CA -31.423 MOTA 21149 CB ALA L 22 143.412 112.529 1.00 95.96 6 22 145.576 111.280 -31.379 1.00129.17 MOTA 21150 С ALA L 6 21151 ALA L 22 144.910 110.274 -31.137 1.00130.00 8 MOTA 0 MOTA 21152 ALA L 23 146.882 111.247 -31.626 1.00103.66 7 Ν MOTA 21153 CA ALA L 23 147.622 109.996 -31.644 1.00102.70 6 ATOM 21154 CB ALA L 23 147.159 109.169 -32.809 1.00 57.04 6 6 **ATOM** 21155 C ALA L 23 149.117 110.255 -31.758 1.00102.46 21156 ALA L 23 149.556 110.931 -32.688 1.00102.85 8 MOTA 0 7 149.891 109.702 -30.822 ATOM 21157 Ν ALA L 24 1.00 74.77 1.00 74.64 21158 ALA L 24 151.350 109.879 -30.802 6 MOTA CA

24

ALA L

151.956 109.157 -29.580

1.00 17.69

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6
      21160
                  ALA L
                          24
                                  152.031 109.394 -32.081
                                                             1.00 74.88
MOTA
              C
                                                             1.00 74.18
                  ALA L
                          24
                                  151.611 109.746 -33.184
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MOTA
      21161
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                                                             1.00 94.81
MOTA
      21162
              Ν
                  ALA L
                          25
                                  153.093 108.605 -31.911
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ATOM
      21163
              CA
                  ALA L
                          25
                                  153.848 108.053 -33.031
                                                             1.00 96.36
MOTA
      21164
              CB
                  ALA L
                          25
                                  153.794 109.014 -34.212
                                                             1.00 54.01
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      21165
              C
                  ALA L
                          25
                                  155.314 107.732 -32.718
                                                             1.00 97.37
MOTA
                                  155.667 107.220 -31.648
                                                             1.00 98.51
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MOTA
      21166
              0
                  ALA L
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                                  156.147 108.037 -33.707
                                                             1.00 88.34
MOTA
      21167
              N
                  ALA L
                          26
                                                             1.00 87.95
                                  157.591 107.854 -33.677
                  ALA L
                          26
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MOTA
      21168
              CA
                                  157.943 106.396 -33.726
MOTA
      21169
              CB
                  ALA L
                          26
                                                             1.00 13.87
                                                                            6
                                  158.024 108.552 -34.956
                                                             1.00 88.24
                                                                            6
      21170
                  ALA L
                          26
MOTA
              С
                  ALA L
                          26
                                  157.241 109.298 -35.542
                                                             1.00 88.35
                                                                            8
      21171
MOTA
              0
                                                             1.00 76.54
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                  ALA L
                          27
                                  159.246 108.323 -35.410
MOTA
      21172
              Ν
                                                             1.00 77.54
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      21173
                  ALA L
                          27
                                  159.689 108.997 -36.621
MOTA
              CA
                          27
                                  160.137 110.415 -36.290
                                                             1.00 85.17
                                                                            6
MOTA
      21174
              CB
                  ALA L
                  ALA L
                          27
                                  160.807 108.250 -37.306
                                                             1.00 78.24
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      21175
              С
MOTA
                                  161.356 107.303 -36.752
                                                             1.00 78.60
      21176
                  ALA L
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ATOM
              0
                                  161.141 108.681 -38.516
                                                             1.00 55.91
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                  ALA L
                          28
MOTA
      21177
              Ν
                                  162.207 108.050 -39.273
                                                             1.00 56.77
                                                                            6
      21178
                  ALA L
                          28
MOTA
              CA
                  ALA L
                                  161.822 106.625 -39.624
                                                             1.00 46.12
                                                                            6
MOTA
      21179
              CB
                          28
      21180
                  ALA L
                          28
                                  162.499 108.841 -40.538
                                                             1.00 57.75
                                                                            6
ATOM
              C
      21181
                  ALA L
                          28
                                  161.829 109.828 -40.823
                                                             1.00 58.27
                                                                            8
ATOM
              0
                                                                            7
                  ALA L
                          29
                                  163.516 108.405 -41.279
                                                             1.00 96.75
MOTA
      21182
              Ν
                                  163.925 109.039 -42.533
                                                             1.00 98.03
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ATOM
      21183
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                  ALA L
                          29
                                  162.711 109.221 -43.441
                                                             1.00147.96
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MOTA
      21184
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                  ALA L
                          29
                  ALA L
                          29
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                                                             1.00 98.81
                                                                            6
ATOM
      21185
              С
                                  164.579 111.028 -41.337
                                                             1.00 98.47
                                                                            8
      21186
                  ALA L
                          29
MOTA
              Ο
                                                                            7
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                                  165.399 110.745 -43.416
                                                             1.00103.95
      21187
                  ALA L
MOTA
              Ν
                  ALA L
                          30
                                  166.180 111.973 -43.411
                                                             1.00105.83
                                                                            6
      21188
MOTA
              CA
                                  167.160 111.939 -42.251
                                                             1.00117.60
                                                                            6
                  ALA L
                          30
MOTA
      21189
              CB
                                  166.941 112.148 -44.727
                                                             1.00106.99
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      21190
              C
                  ALA L
                          30
MOTA
                  ALA L
                          30
                                  167.149 111.178 -45.452
                                                             1.00107.48
                                                                            8
MOTA
      21191
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                                  167.350 113.388 -45.014
                                                             1.00111.67
                                                                            7
      21192
                  ALA L
                          31
MOTA
              N
      21193
                  ALA L
                          31
                                  168.109 113.767 -46.217
                                                             1.00111.87
                                                                            6
MOTA
              CA
      21194
                  ALA L
                          31
                                  168.839 112.555 -46.811
                                                             1.00111.02
                                                                            6
MOTA
              CB
      21195
                  ALA L
                          31
                                  167.275 114.446 -47.299
                                                             1.00112.34
                                                                            6
MOTA
              C
                                  166.042 114.409 -47.266
                                                                            8
MOTA
      21196
              0
                   ALA L
                          31
                                                             1.00112.64
                                                                            7
                                  167.977 115.061 -48.253
ATOM
      21197
              Ν
                   ALA L
                          32
                                                             1.00104.58
      21198
                          32
                                  167.382 115.779 -49.382
                                                             1.00105.61
                                                                            6
ATOM
              CA
                  ALA L
                                  166.051 115.139 -49.788
      21199
                  ALA L
                          32
                                                             1.00131.34
                                                                            6
ATOM
              CB
                  ALA L
                          32
                                  167.174 117.252 -49.052
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                                                                            6
ATOM
      21200
              С
                                  167.865 117.811 -48.201
                                                             1.00106.73
                                                                            8
                   ALA L
                          32
MOTA
      21201
              0
                                                                            7
                   ALA L
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MOTA
      21202
                          33
              Ν
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      21203
                   ALA L
                          33
                                  165.906 119.281 -49.511
                                                                            6
MOTA
              CA
                  ALA L
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                                                   -50.816
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ATOM
      21204
              CB
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      21205
                   ALA L
                          33
                                  164.712 119.288 -48.572
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ATOM
              C
                                  164.339 120.325 -48.023
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                                                                            8
      21206
                   ALA L
                          33
ATOM
              0
                   ALA L
                          34
                                  164.120 118.108 -48.407
                                                             1.00 94.79
                                                                            7
      21207
ATOM
              Ν
                  ALA L
                          34
                                  162.967 117.918 -47.538
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                                                                            6
MOTA
      21208
              CA
                                                             1.00157.98
MOTA
      21209
              CB
                  ALA L
                          34
                                  161.853 117.207 -48.293
                                                                            6
                                                             1.00 94.23
MOTA
      21210
              C
                   ALA L
                          34
                                  163.375 117.106 -46.316
                                                                            6
                                  164.406 116.437 -46.320
                                                                            8
MOTA
      21211
              0
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                          34
                                                              1.00 94.34
                                  162.555 117.156 -45.275
                                                                            7
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MOTA
      21212
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                   ALA L
                          35
                                  162.844 116.447 -44.040
                                                                            6
                  ALA L
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                                                             1.00120.47
MOTA
      21213
              CA
                                  161.951 116.988 -42.928
                                                                            6
                   ALA L
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                                                              1.00141.46
MOTA
      21214
              CB
                                  162.714 114.925 -44.114
                                                              1.00119.62
                                                                            6
MOTA
      21215
              C
                   ALA L
                          35
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21271

0

MOTA

ALA L

163.622 114.200 -43.703 MOTA 21216 0 ALA L 35 1.00120.56 7 161.588 114.457 -44.646 1.00149.03 MOTA 21217 ALA L 36 Ν 6 161.273 113.030 -44.744 1.00146.37 MOTA 21218 CA ALA L 36 162.551 112.168 -44.670 6 1.00 13.87 MOTA 21219 CB ALA L 36 6 160.370 112.780 -43.534 1.00145.31 MOTA 21220 C ALA L 36 36 8 160.173 113.687 -42.726 1.00146.01 MOTA 21221 0 ALA L 7 159.811 111.586 -43.385 1.00120.00 21222 ALA L 37 MOTA N 6 ALA L 37 158.935 111.367 -42.240 1.00118.54 MOTA 21223 CA 6 157.533 111.800 -42.593 1.00 13.87 MOTA 21224 CB ALA L 37 158.906 109.951 -41.685 1.00117.96 6 MOTA 21225 C ALA L 37 ALA L 8 37 159.343 109.710 -40.561 1.00118.82 ATOM 21226 0 7 158.379 109.022 -42.476 1.00 54.35 21227 ALA L 38 ATOM N 158.258 107.624 -42.071 1.00 52.50 6 21228 ALA L 38 ATOM CA 159.641 106.994 -41.961 6 1.00 83.35 ATOM 21229 CB ALA L 38 6 АТОМ 21230 ALA L 38 157.537 107.601 -40.725 1.00 51.68 C 8 ATOM 21231 0 ALA L 38 157.867 106.829 -39.827 1.00 51.03 21232 156.546 108.476 -40.605 1.00111.17 7 MOTA Ν ALA L 39 155.754 108.608 -39.392 21233 ALA L 39 1.00110.47 6 ATOM CA 21234 ALA L 39 154.718 109.724 -39.580 1.00 13.87 6 ATOM CB 155.073 107.288 -39.010 MOTA 21235 С ALA L 39 1.00110.18 6 154.927 106.394 -39.838 MOTA 21236 0 ALA L 39 1.00110.89 8 154.680 107.165 -37.745 7 MOTA 21237 Ν ALA L 40 1.00120.20 154.021 105.958 -37.249 1.00119.91 6 MOTA 21238 CA ALA L 40 ALA L 40 155.037 105.079 -36.496 1.00 46.74 6 MOTA 21239 CB 1.00119.74 152.865 106.354 -36.327 ALA L 40 6 MOTA 21240 С 152.980 106.272 -35.103 8 MOTA 21241 ALA L 40 1.00119.60 0 7 21242 ALA L 41 151.757 106.776 -36.941 1.00133.41 MOTA Ν 21243 CA ALA L 41 150.545 107.232 -36.246 1.00132.82 6 MOTA ALA L 149.384 107.316 -37.244 1.00 66.73 6 21244 CB 41 MOTA 6 С ALA L 41 150.109 106.421 -35.026 1.00132.26 MOTA 21245 150.834 105.544 -34.558 1.00132.13 8 21246 ALA L 41 MOTA 0 148.918 106.736 -34.513 1.00 46.03 7 MOTA 21247 Ñ ALA L 42 21248 ALA L 42 148.350 106.041 -33.351 1.00 45.89 6 MOTA CA 1.00 22.55 ATOM 21249 CB ALA L 42 149.065 106.489 -32.056 6 146.832 106.230 -33.212 21250 С ALA L 42 1.00 45.75 6 MOTA 1.00 45.13 8 ATOM 21251 ALA L 42 146.245 105.736 -32.258 0 7 146.226 106.930 -34.178 1.00 73.48 ATOM 21252 Ν ALA L 43 1.00 74.48 6 144.787 107.246 -34.247 ATOM 21253 CA ALA L 43 1.00 13.87 6 21254 ALA L 43 144.183 106.632 -35.526 MOTA CB 1.00 75.95 6 ATOM 21255 C ALA L 43 143.926 106.888 -33.023 144.440 106.783 -31.910 1.00 76.87 8 ATOM 21256 0 ALA L 43 142.613 106.744 -33.234 7 1.00 68.37 21257 ALA L 44 MOTA Ν 1.00 68.58 6 141.635 106.403 -32.177 21258 ALA L 44 MOTA CA 142.028 107.039 -30.815 1.00 20.12 6 MOTA 21259 CB ALA L 44 140.237 106.883 -32.575 1.00 69.21 6 MOTA 21260 C ALA L 44 139.956 108.086 -32.558 1.00 68.33 8 MOTA 21261 0 ALA L 44 7 139.362 105.944 -32.921 1.00150.12 MOTA 21262 N ALA L 45 MOTA 21263 CA ALA L 45 138.005 106.290 -33.332 1.00151.81 6 MOTA 21264 CB ALA L 45 137.756 105.826 -34.766 1.00123.14 6 136.932 105.726 -32.410 1.00152.61 6 MOTA 21265 C ALA L 45 8 137.153 105.562 -31.212 1.00153.03 MOTA 21266 0 ALA L 45 7 135.767 105.437 -32.986 1.00 98.73 MOTA 21267 Ν ALA L 46 6 1.00 99.54 ALA L 46 134.631 104.908 -32.240 MOTA 21268 CA 6 133.534 104.474 -33.203 1.00171.10 MOTA 21269 CB ALA L 46 135.021 103.745 -31.343 1.00100.29 6 21270 C ALA L 46 MOTA 134.824 103.871 -30.115 46 1.00100.99

													_
MOTA	21272	$_{ m CXC}$	ALA	L	46	1	35.514	10	2.728	-31.875	1.00	172.19	8
ATOM	21273	C1	RIF	R	1		48.535	9	7.571	24.909	1.00	48.44	6
		C2					50.953		6.931	24.770		48.44	6
MOTA	21274		RIF	R	1								
MOTA	21275	C3	RIF	R	1		53.514	9	6.552	24.129	1.00	48.44	6
ATOM	21276	C4	RIF	R	1		54.396	9	7.190	23.105	1.00	48.44	6
ATOM	21277	C5	RIF	R	1		55.661		7.778	23.665	1.00	48.44	6
MOTA	21278	C6	RIF	R	1		51.493		0.052	21.561	1.00	48.44	6
MOTA	21279	C7	RIF	R	1		46.186	9	7.136	26.970	1.00	48.44	6
MOTA	21280	C8	RIF	R	1		44.950		6.432	27.462	1 00	48.44	6
													6
MOTA	21281	C9	RIF	R	1		44.290		5.430	26.775		48.44	
ATOM	21282	C10	RIF	R	1		44.591	9	4.823	25.453	1.00	48.44	6
ATOM	21283	C11	RIF	R	1		43.975	9	3.708	25.000	1.00	48.44	6
MOTA	21284	C12	RIF	R	1		48.385		6.576	25.931		48.44	6
MOTA	21285	C13	RIF	Ŕ	1		44.608		2.418	24.492		48.44	6
MOTA	21286	C14	RIF	R	1		45.584	9	2.657	23.331	1.00	48.44	6
MOTA	21287			R	1		46.563		1.517	22.975	1 00	48.44	6
											1.00		6
MOTA	21288		RIF	R	1		47.602		1.868	21.900			
MOTA	21289	C17	RIF	R	1		49.044		2.222	22.338	1.00	48.44	6
ATOM	21290	C18	RIF	R	1		49.802	9	2.855	21.145	1.00	48.44	6
MOTA	21291	C19	RIF	R	1		50.807		3.988	21.507		48.44	6
													6
MOTA	21292	C20		R	1		51.788		4.290	20.347		48.44	
ATOM	21293	C21	RIF	R	1		52.908	9	5.313	20.658	1.00	48.44	6
MOTA	21294	C22	RIF	R	1		53.811	9	5.149	21.637	1.00	48.44	6
ATOM	21295	C23	RIF	R	1		49.457		5.732	26.315		48.44	6
		_											
MOTA	21296	C24		R	1		44.502		6.928	28.818		48.44	6
MOTA	21297	C25	${\sf RIF}$	R	1		49.289	9	4.561	27.183	1.00	48.44	6
ATOM	21298	C26	RIF	R	1		46.669	9	3.510	29.331	1.00	48.44	6
ATOM	21299	C27	RIF	R	1		46.063		2.158	29.654	1 00	48.44	6
												48.44	6
MOTA	21300	C28		R	1		48.361		1.198	29.811			
ATOM	21301	C29	RIF	R	1		48.909		2.576	29.465	1.00	48.44	6
ATOM	21302	C30	RIF	R	1		46.437	8	9.991	30.793	1.00	48.44	6
ATOM	21303	C31		R	1		45.276		1.766	25.727	1.00	48.44	6
									0.223	22.532		48.44	6
MOTA	21304	C32		R	1		45.824						
MOTA	21305	C33	RIF	R	1		49.817		1.008	22.892		48.44	6
ATOM	21306	C34	RIF	R	1		49.995	9	5.193	21.899	1.00	48.44	6
ATOM	21307	C35		R	1		49.896	9	1.280	19.314	1.00	48.44	6
							50.711		0.240	18.695	1.00		6
MOTA	21308	C36		R	1								
MOTA	21309	C37	RIF	R	1		51.509		4.202	17.934	1.00		6
MOTA	21310	C38	RIF	R	1		50.740	9	5.963	25.789	1.00	48.44	6
MOTA	21311	C39	RIF	R	1		52.255	9	7.183	24.089	1.00	48.44	6
					_		52.329		8.184	23.066		48.44	6
MOTA	21312				1								
MOTA	21313		RIF	R	1		51.324		9.013	22.634		48.44	6
MOTA	21314	C42	RIF	R	1		50.010	9	8.822	23.251	1.00	48.44	6
MOTA	21315	C43	RIF	R	1		49.837	9	7.769	24.323	1.00	48.44	6
MOTA	21316	N1	RIF	R	$\overline{1}$		48.294		4.494	28.016		48.44	7
MOTA	21317	Ν2	RIF	R	1		47.948		3.290	28.636		48.44	7
ATOM	21318	Ν3	RIF	R	1		47.003	9	1.327	30.489	1.00	48.44	7
MOTA	21319	N4	RIF	R	1		47.096	9	6.286	26.473	1.00	48.44	7
ATOM	21320	01	RIF	R	1		47.471		8.266	24.488		48.44	8
												48.44	
ATOM	21321	02	RIF	R	1		49.006		9.538	22.893			8
ATOM	21322	03	RIF	R	1		53.573		8.238	22.501		48.44	8
ATOM	21323	04	RIF	R	1		53.974	9	5.598	24.821	1.00	48.44	8
ATOM	21324	05	RIF	R	1		54.773		6.192	22.056		48.44	8
				R	1		50.986		4.738	19.186		48.44	8
ATOM	21325	06	RIF										
ATOM	21326	07	RIF	R	1		50.469		1.795	20.428		48.44	8
ATOM	21327	08	RIF	R	1		48.856	9	1.664	18.913	1.00	48.44	8

ATOM	21328	09	RIF	R	1	47.161	92.980	21.083	1.00 48.44	8
ATOM	21329	010	RIF	R	1	44.756	92.982	22.212	1.00 48.44	8
ATOM	21330	016	RIF	R	1	46.290	98.343	27.047	1.00 48.44	8
ATOM	21331	017	RIF	R	1	51.732	95.163	26.318	1.00 48.44	8
END										